

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

APPLICATION FOR PERMIT TO DRILL		5. MINERAL LEASE NO: ST ML 22935A	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: 891008900A	
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		9. WELL NAME and NUMBER: NBU 922-31BT	
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217-3779		PHONE NUMBER: (720) 929-6226	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 888' FNL & 2191' FEL LAT 39.997358 LON -109.480419 (NAD 27) AT PROPOSED PRODUCING ZONE: N/A		10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 20.2 miles southeast of Ouray, Utah		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 31 9S 22E	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 888'		16. NUMBER OF ACRES IN LEASE: 160	
17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40		18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 20'	
19. PROPOSED DEPTH: 9,200		20. BOND DESCRIPTION: RLB0005237	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4,894' GL		22. APPROXIMATE DATE WORK WILL START:	
23. ESTIMATED DURATION: 10 days			

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8"	J-55	36#	2,100	Premium Cement	215 sx	1.18 15.6
					Premium Cement	50 sx	1.18 15.6
7 7/8"	4 1/2"	I-80	11.6#	9,200	Premium Lite II	440 sx	3.38 11.0
					50/50 Poz G	1460 sx	1.31 14.3

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Kevin McIntyre TITLE Regulatory Analyst I

SIGNATURE [Signature] DATE 7/1/2008

(This space for State use only)

API NUMBER ASSIGNED: 43047-40178

Approved by the  
Utah Division of  
Oil, Gas and Mining  
APPROVAL:

RECEIVED  
JUL 03 2008  
DIV. OF OIL, GAS & MINING

Date: 09-11-08  
(See Instructions on Form 310)  
By: [Signature]

**R 21 E** **R 22 E** **T9S, R22E, S.L.B.&M.**

# Kerr-McGee Oil & Gas Onshore LP

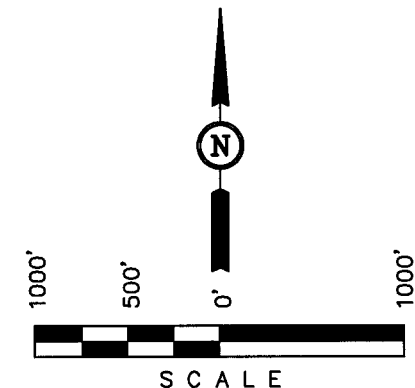
Well location, NBU #922-31BT, located as shown in the NW 1/4 NE 1/4 of Section 31, T9S, R22E, S.L.B.&M., Uintah County, Utah.

## BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

## BASIS OF BEARINGS

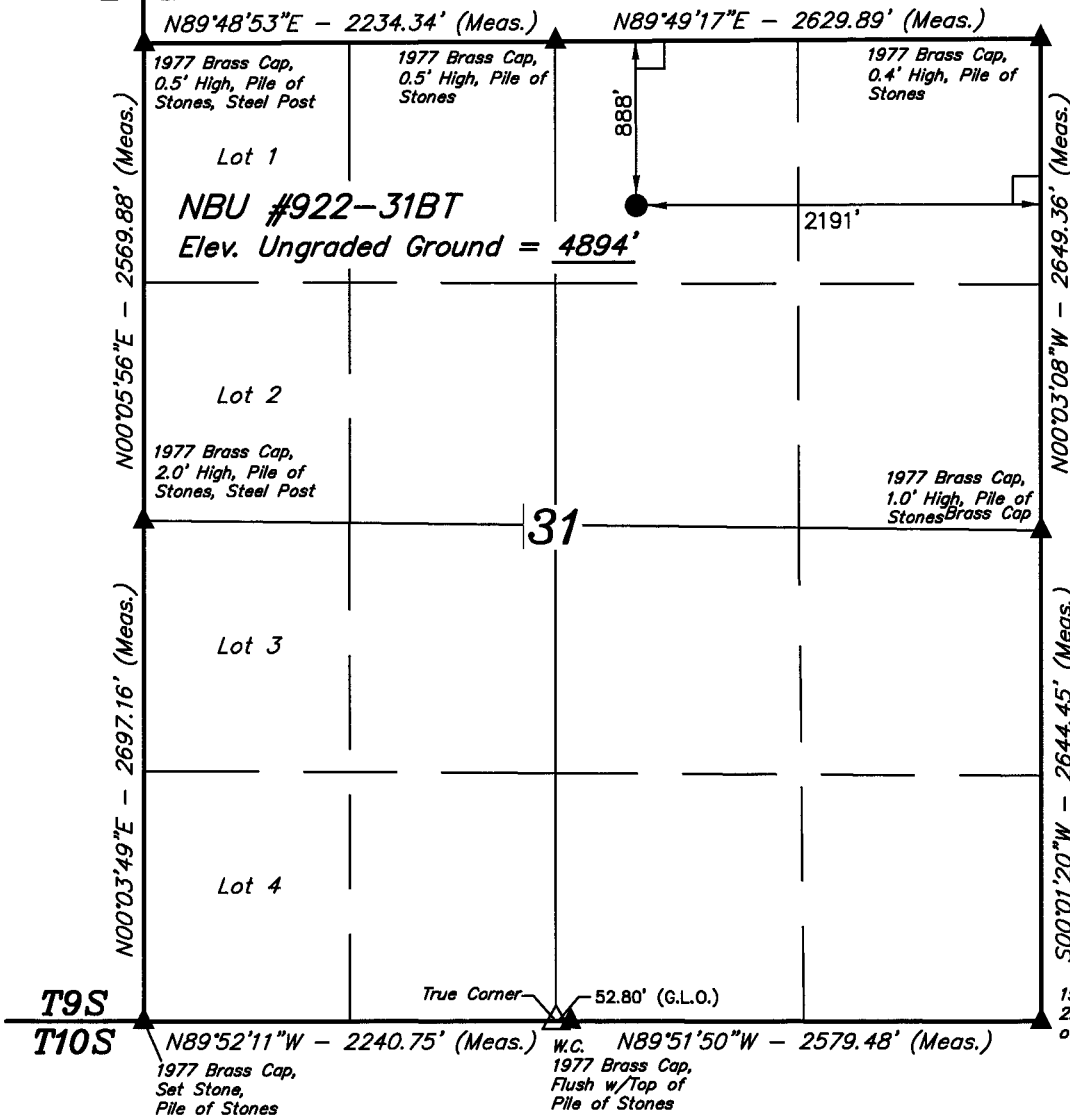
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



## CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 101319  
 STATE OF UTAH



## LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 39°59'50.36" (39.997322)  
 LONGITUDE = 109°28'51.98" (109.481106)  
 (NAD 27)  
 LATITUDE = 39°59'50.49" (39.997358)  
 LONGITUDE = 109°28'49.51" (109.480419)

**UINTAH ENGINEERING & LAND SURVEYING**  
**85 SOUTH 200 EAST - VERNAL, UTAH 84078**  
**(435) 789-1017**

SCALE 1" = 1000'	DATE SURVEYED: 05-27-08	DATE DRAWN: 06-05-08
PARTY J.R. R.P. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 922-31BT  
NWNE Sec. 31, T9S,R22E  
UINTAH COUNTY, UTAH  
ST ML 22935A**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1227'
Birds Nest	1558'
Mahogany	2039'
Wasatch	4482'
Mesaverde	7088'
MVU2	8027'
MVL1	8599'
TD	9200'

**2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1227'
Water	Birds Nest	1558'
Water	Mahogany	2039'
Gas	Wasatch	4482'
Gas	Mesaverde	7088'
Gas	MVU2	8027'
Gas	MVL1	8599'
Water	N/A	
Other Minerals	N/A	

**3. Pressure Control Equipment (Schematic Attached)**

*Please refer to the attached Drilling Program.*

**4. Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program.*

**5. Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

**6. Evaluation Program:**

*Please refer to the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9200' TD, approximately equals 5704 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3680 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please refer to the attached Drilling Program.*

*Onshore Order #2 – Air Drilling Variance*

*Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2*

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

*This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.*

*The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.*

*More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.*

*Background*

*In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet.*

*The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.*

*Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.*



*The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.*

*KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.*

*Variance for BOPE Requirements*

*The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.*

*Variance for Mud Material Requirements*

*Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.*

*Variance for Special Drilling Operation (surface equipment placement) Requirements*

*Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.*

*Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.*

*Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.*

*Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the bloop line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.*

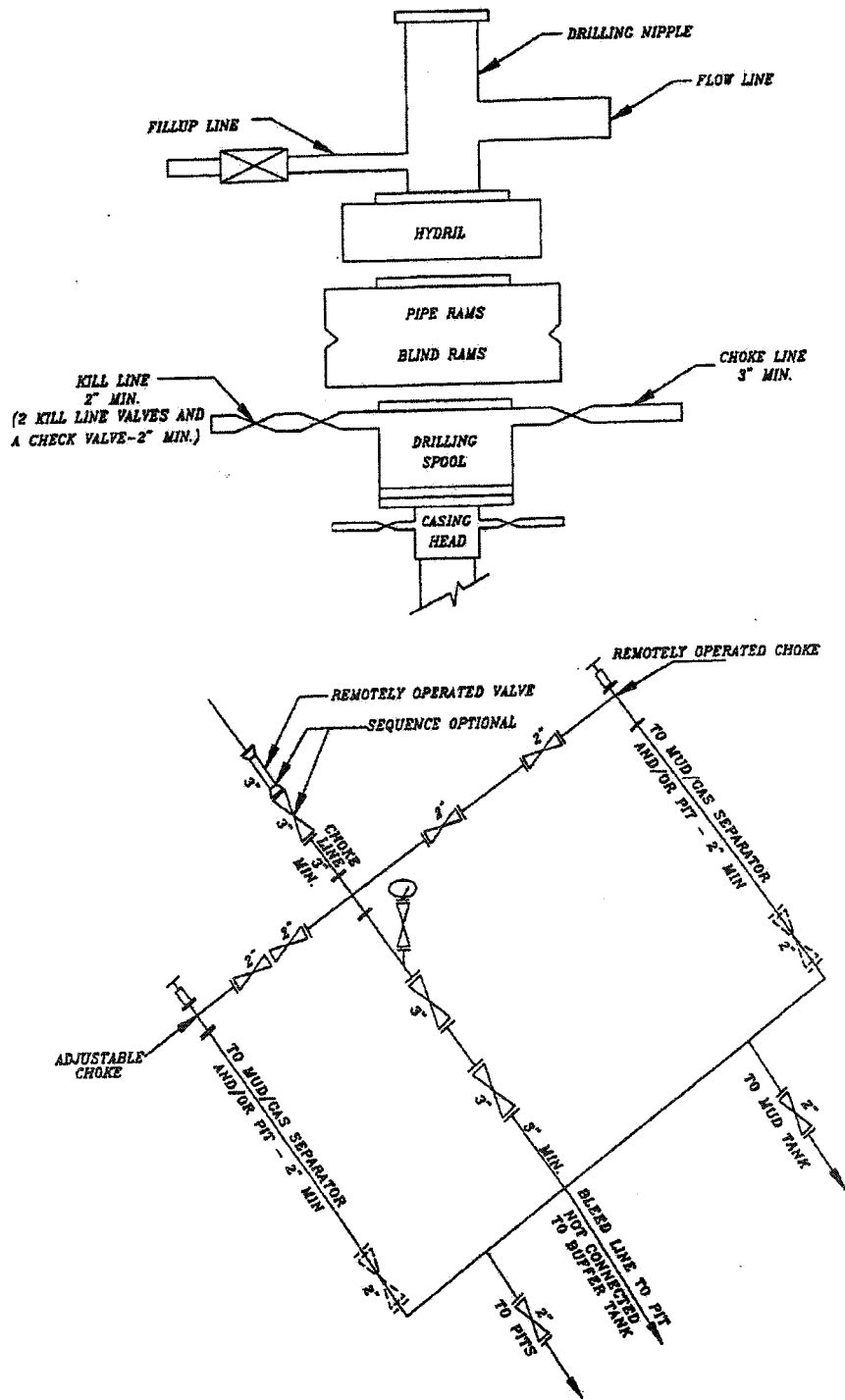
*Conclusion*

*The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.*

**10. Other Information:**

*Please refer to the attached Drilling Program.*

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 922-31BT  
NWNE SEC 31-T9S-R22E  
Uintah County, UT  
ST ML 22935A

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

The existing road for the CIGE #148 will be utilized. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

**2. Planned Access Roads:**

No new access road is proposed. Refer to Topo Map B for the location of the existing access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

*Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.*

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

**3. Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or

installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

**No new pipeline utilizing the existing CIGE #148 pipeline. No TOPO D attached.**

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E. CIGE 112D SWD – SESE, SECTION 19, T9S, R21E, NBU 47N2 SWD – SESW, SECTION 30, T10S, R22E, NBU 159 SWD – NESW, SECTION 35, T9S, R21E, NBU 347 – NWSW, SECTION 11, T10S, R22E, Ouray #1 SWD – NENE SECTION 1, T9S, R21E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

**10. Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

**11. Surface/Mineral Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

**12. Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey has been completed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

**13. Lessee's or Operators's Representative & Certification:**

Kevin McIntyre  
Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
PO BOX 173779  
Denver, CO 80217-3779  
(720) 929-6226

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

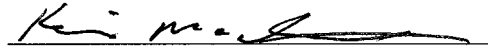
The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.



I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Kevin McIntyre  
Regulatory Analyst

7/1/2008

Date

**KERR-McGEE OIL & GAS ONSHORE LP**

## DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	July 1, 2008
WELL NAME	<b>NBU 922-31BT</b>	TD	9,200' MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah
		STATE	Utah
ELEVATION	4,894' GL	KB	4,909'
SURFACE LOCATION	NWNE 888' FNL & 2191' FEL, SEC. 31, T9S, R22E	BHL	Straight Hole
	Latitude: 39.997358 Longitude: -109.480419	NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: UDOGM (SURF & MINERALS), BLM, Tri-County Health Dept.		

[illegible]

# ERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

## CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2100	36.00	J-55	LTC	0.97	2.06	7.63
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9200	11.60	I-80	LTC	2.15	1.12	2.16

- 1) Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)
- MASP 3680 psi

## CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>				
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,980'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	60%	11.00	3.38
	TAIL	5,220'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1460	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

## FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

## ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

DATE:

DRILLING SUPERINTENDENT:

Randy Bayne

NBU 922-31BT.xls

DATE:

# Kerr-McGee Oil & Gas Onshore LP

NBU #922-31BT

SECTION 31, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 51.2 MILES.

# Kerr-McGee Oil & Gas Onshore LP

## NBU #922-31BT

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 31, T9S, R22E, S.L.B.&M



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

### LOCATION PHOTOS

06 16 08  
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: J.C.

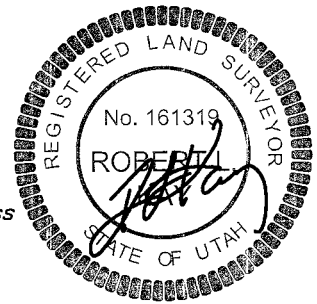
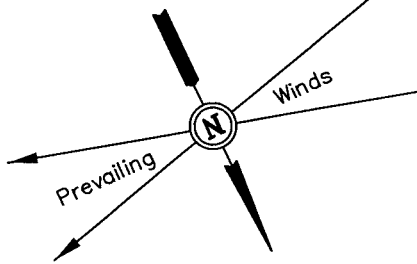
REVISED: 00-00-00

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

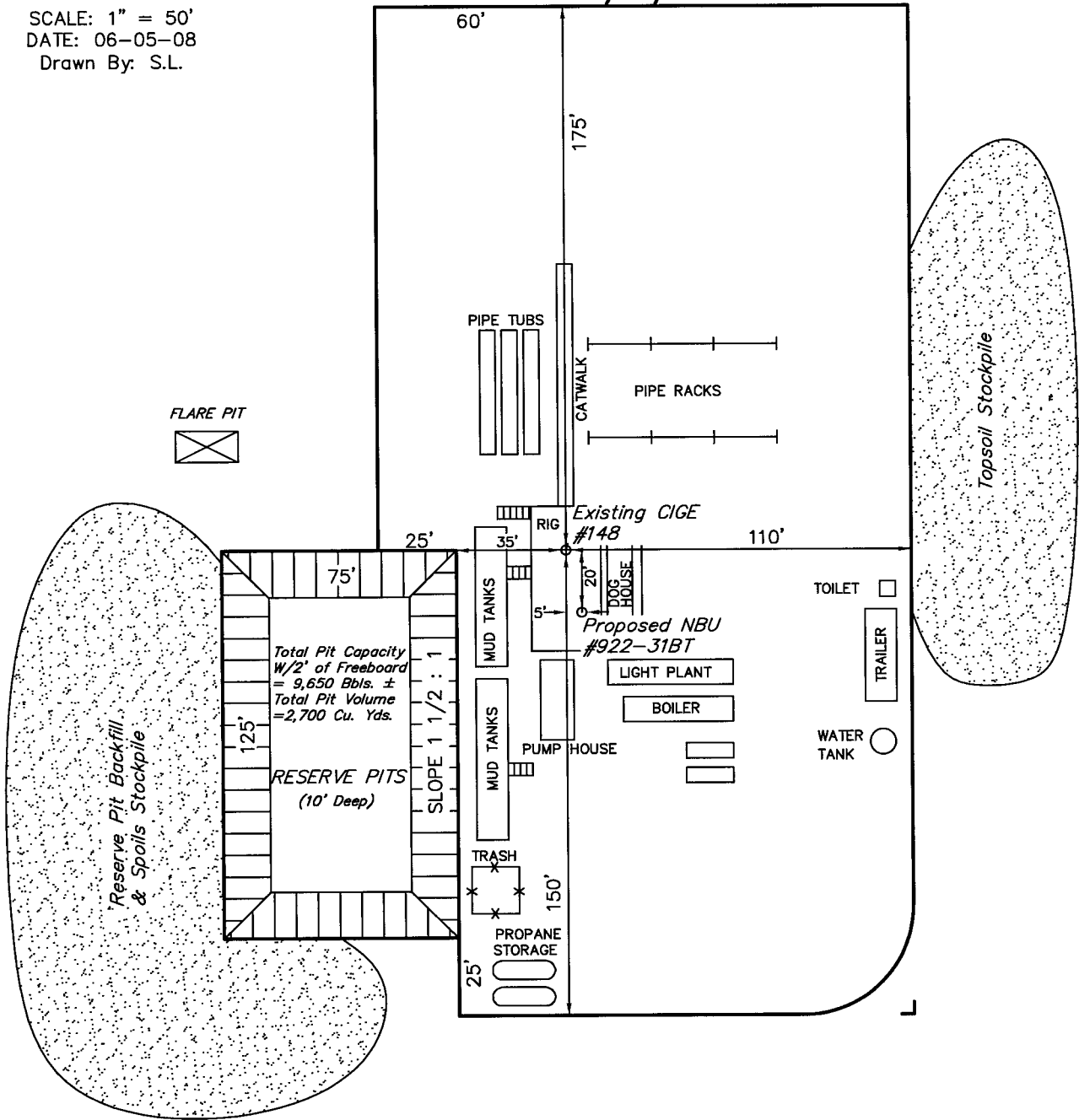
## LOCATION LAYOUT FOR

NBU #922-31BT  
SECTION 31, T9S, R21E, S.L.B.&M.  
888' FNL 2191' FEL



SCALE: 1" = 50'  
DATE: 06-05-08  
Drawn By: S.L.

Existing Access Road

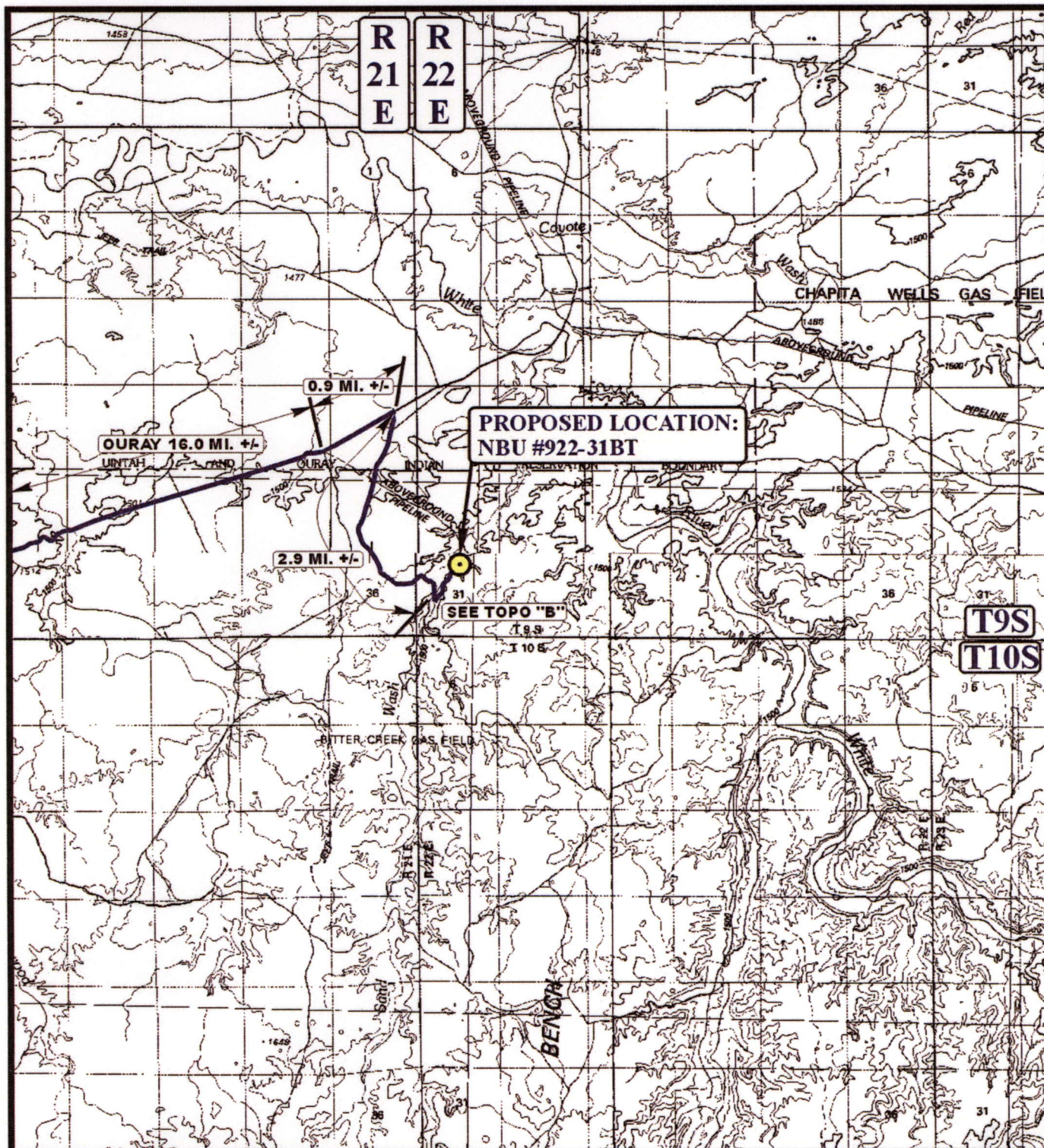


### NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 4894.5'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017





# **LEGEND:**

● PROPOSED LOCATION



**Kerr-McGee Oil & Gas Onshore LP**

**NBU #922-31BT**

**SECTION 31, T9S, R22E, S.L.B.&M.**

**888' FNL 2191' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

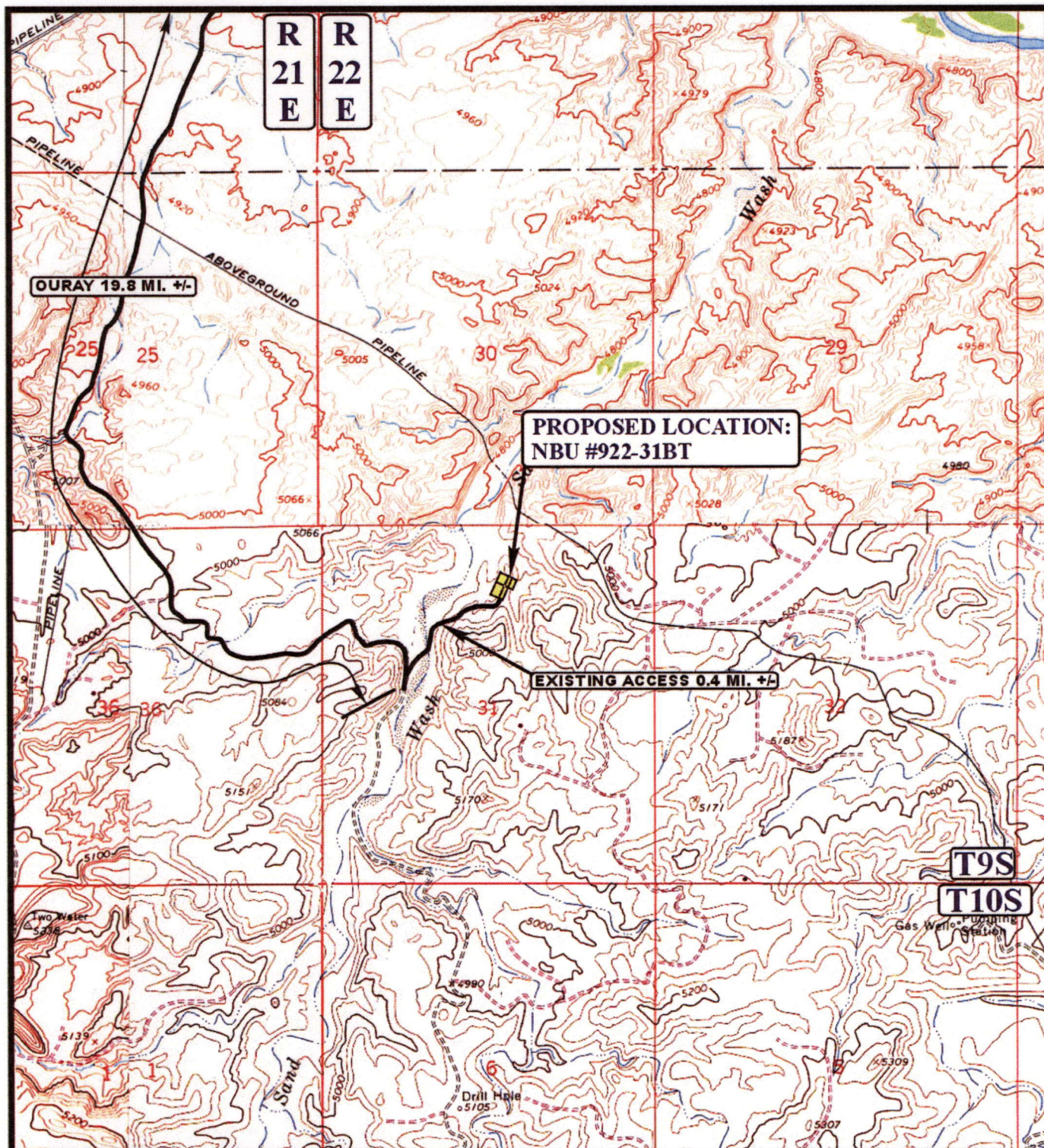
**TOPOGRAPHIC**  
**MAP**

**06 16 08**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.C. REVISED: 00-00-00







**LEGEND:**

————— EXISTING ROAD  
 - - - - - PROPOSED ACCESS ROAD



**Kerr-McGee Oil & Gas Onshore LP**

**NBU #922-31BT**

**SECTION 31, T9S, R22E, S.L.B.&M.**

**888' FNL 2191' FEL**



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**06 16 08**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.C. REVISED: 00-00-00









**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/03/2008

API NO. ASSIGNED: 43-047-40178

WELL NAME: NBU 922-31BT

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

PHONE NUMBER: 720-929-6226

CONTACT: KEVIN MCINTYRE

**PROPOSED LOCATION:**

NWNE 31 090S 220E

SURFACE: 0888 FNL 2191 FEL

BOTTOM: 0888 FNL 2191 FEL

COUNTY: UINTAH

LATITUDE: 39.99742 LONGITUDE: -109.4803

UTM SURF EASTINGS: 629730 NORTHINGS: 4428367

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DLD	9/11/08
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ST ML 22935A

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 22013542 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

☐ R649-2-3.  
Unit: NATURAL BUTTES  
☐ R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 173-14  
Eff Date: 12-2-1999  
Siting: 400' to 460' subdr. & uncomm. tract  
☐ R649-3-11. Directional Drill

COMMENTS:

Needs Permit (06-19-08)

STIPULATIONS:

1- STATEMENT OF BASIS  
2- OIL SHALE  
3- Surface Csg Cont Stip



# Application for Permit to Drill

## Statement of Basis

8/26/2008

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
858	43-047-40178-00-00		GW	S	No
<b>Operator</b>	KERR-MCGEE OIL & GAS ONSHORE, L.P. <b>Surface Owner-APD</b>				
<b>Well Name</b>	NBU 922-31BT	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NWNE 31 9S 22E S 888 FNL 2191 FEL GPS Coord (UTM) 629730E 4428367N				

### Geologic Statement of Basis

Kerr McGee proposes to set 2,100' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,900'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 31. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought to above the base of the moderately saline groundwater in order to isolate it from fresher waters uphole.

Brad Hill  
APD Evaluator

8/26/2008  
Date / Time

### Surface Statement of Basis

The proposed NBU 922-31BT gas well is on the existing location of the CIGE 148 gas well. This well is planned to be plugged. A reserve pit 75' x 125' x 10' deep will be re-dug in the northeast corner of the location. The reserve pit is in partial rock and may have to be blasted. Also it may be reduced in size. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

Floyd Bartlett  
Onsite Evaluator

6/19/2008  
Date / Time

### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** KERR-MCGEE OIL & GAS ONSHORE, L.P.  
**Well Name** NBU 922-31BT  
**API Number** 43-047-40178-0 **APD No** 858 **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWNE **Sec** 31 **Tw** 9S **Rng** 22E 888 FNL 2191 FEL  
**GPS Coord (UTM)** **Surface Owner**

### **Participants**

Floyd Bartlett and David Hackford (DOGM), Jim Davis (SITLA), Raleen White, Clay Einerson and Tony Kzneck (Kerr McGee) and David Kay (Uintah Engineering and Land Surveying).

### **Regional/Local Setting & Topography**

The proposed NBU 922-31BT gas well is on the existing location of the CIGE 148 gas well. This well is planned to be plugged. A reserve pit 75' x 125' x 10' deep will be re-dug in the northeast corner of the location. The reserve pit is in partial rock and may have to be blasted. Also it may be reduced in size. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

### **Surface Use Plan**

#### **Current Surface Use**

Existing Well Pad

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>		<b>Src Const Material</b>	<b>Surface Formation</b>
	<b>Width</b>	<b>Length</b>		

#### **Ancillary Facilities**

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

#### **Affected Floodplains and/or Wetland**

#### **Flora / Fauna**

Existing Well Pad

#### **Soil Type and Characteristics**

#### **Erosion Issues**

#### **Sedimentation Issues**

#### **Site Stability Issues**

#### **Drainage Diversion Required**

#### **Berm Required?**

#### **Erosion Sedimentation Control Required?**

Paleo Survey Run?

Paleo Potential Observed?

Cultural Survey Run?

Cultural Resources?

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score** 25 1 **Sensitivity Level**

**Characteristics / Requirements**

A reserve pit 75' x 125' x 10' deep will be re-dug in the northeast corner of the location. The reserve pit is in partial rock and may have to be blasted.

**Closed Loop Mud Required?** N **Liner Required?** Y **Liner Thickness** 20 **Pit Underlayment Required?** Y

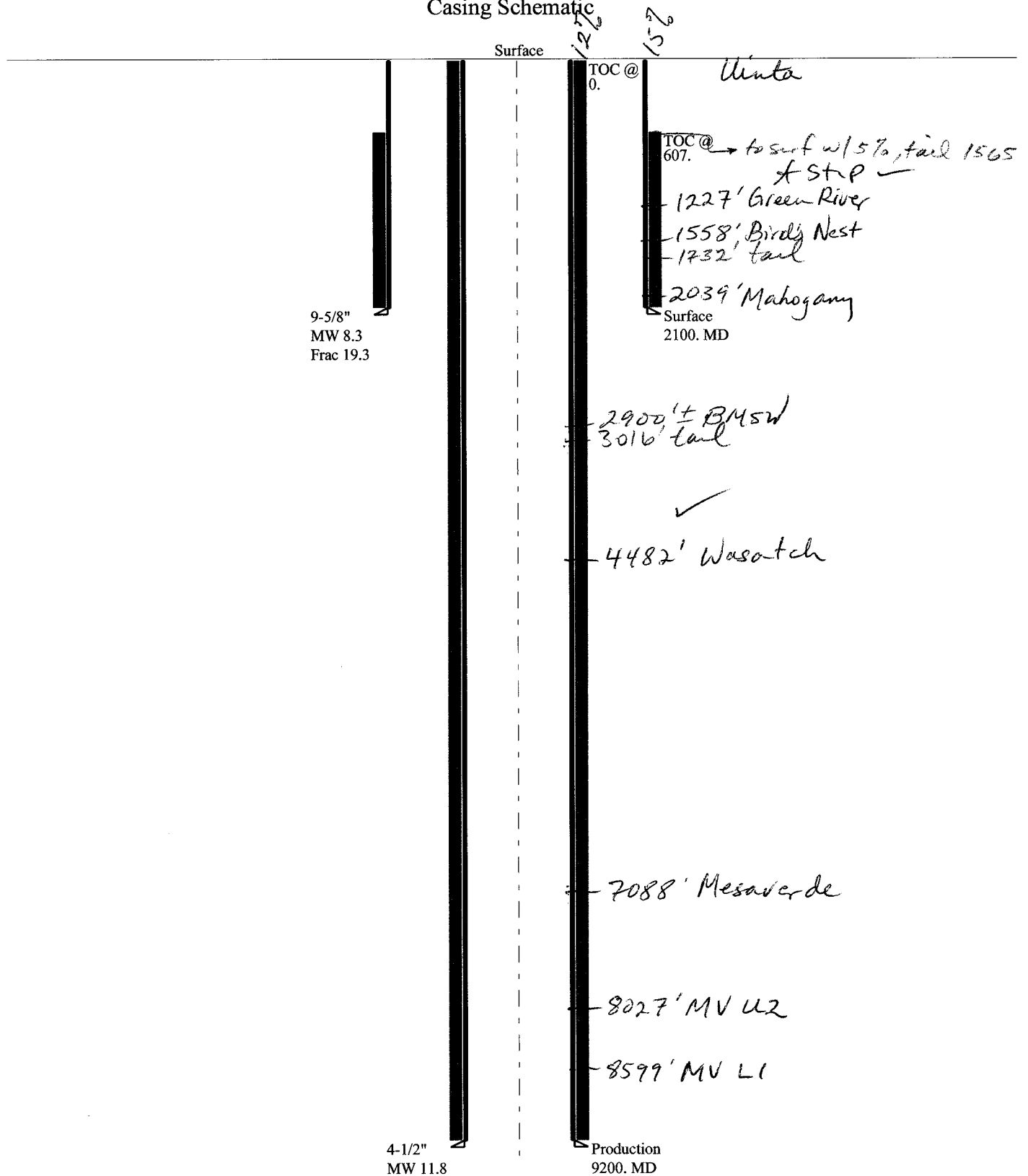
**Other Observations / Comments**

Floyd Bartlett  
Evaluator

6/19/2008  
Date / Time

43047401780000 NBU 922-31BT

Casing Schematic



Well name:	<b>43047401780000 NBU 922-31BT</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Surface	Project ID: 43-047-40178-0000
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 104 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,300 ft

Cement top: 607 ft

**Burst**

Max anticipated surface pressure: 1,848 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,100 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 1,841 ft

Completion type is subs  
**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,200 ft  
Next mud weight: 11.800 ppg  
Next setting BHP: 5,639 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,100 ft  
Injection pressure: 2,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2100	9.625	36.00	J-55	LT&C	2100	2100	8.796	911.5

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	909	2020	2.223	2100	3520	1.68	66	453	6.83 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: September 4, 2008  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2100 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*



Well name:	<b>43047401780000 NBU 922-31BT</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Production	Project ID: 43-047-40178-0000
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**

Mud weight: 11.800 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 204 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 3,615 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,639 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 7,577 ft

Completion type is subs  
**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9200	4.5	11.60	I-80	LT&C	9200	9200	3.875	802.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5639	6360	1.128	5639	7780	1.38	88	212	2.41 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: September 4, 2008  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9200 ft, a mud weight of 11.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# BOPE REVIEW

Kerr-McGee NBU 922-31BT API 43-047-40178-0000

## INPUT

Well Name

Kerr-McGee NBU 922-31BT API 43-047-40178-0000			
String 1	String 2		
9 5/8	4 1/2		
2100	9200		
40	2100		
8.4	11.8	✓	
500	5000		
3520	7780		
5704	11.9 ppg	✓	

Calculations	String 1	9 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	917	
BOPE Adequate For Drilling And Setting Casing at Depth?			
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	665	NO <i>OK</i> Air Drill to surface shoe with diverter
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	455	YES
*Can Full Expected Pressure Be Held At Previous Shoe?			
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	464	NO <i>Reasonable depth - no expected pressure</i>
Required Casing/BOPE Test Pressure		2100 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		40 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	4 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	5645	
BOPE Adequate For Drilling And Setting Casing at Depth?			
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	4541	YES ✓
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	3621	YES
*Can Full Expected Pressure Be Held At Previous Shoe?			
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	4083	NO <i>Reasonable</i>
Required Casing/BOPE Test Pressure		5000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		2100 psi	*Assumes 1psi/ft frac gradient

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 15, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Wasatch/MesaVerde)

43-047-40184	NBU 921-30FT	Sec 30 T09S R21E 1585 FNL 2614 FWL
43-047-40185	NBU 921-31BT	Sec 31 T09S R21E 0670 FNL 2008 FEL
43-047-40170	NBU 921-27KT	Sec 27 T09S R21E 1527 FSL 1821 FWL
43-047-40171	NBU 921-27MT	Sec 27 T09S R21E 0634 FSL 0931 FWL
43-047-40172	NBU 921-27OT	Sec 27 T09S R21E 0646 FSL 2211 FEL
43-047-40173	NBU 921-27HT	Sec 27 T09S R21E 2025 FNL 0623 FEL
43-047-40174	NBU 921-27LT	Sec 27 T09S R21E 1954 FSL 0641 FWL
43-047-40175	NBU 921-33K	Sec 33 T09S R21E 2066 FSL 1926 FWL
43-047-40227	NBU 921-27C2D	Sec 27 T09S R21E 0650 FNL 1730 FWL
43-047-40203	NBU 921-27D2DS	Sec 27 T09S R21E 0660 FNL 1713 FWL
	BHL	Sec 27 T09S R21E 0395 FNL 0350 FWL
43-047-40202	NBU 921-27D2AS	Sec 27 T09S R21E 0640 FNL 1747 FWL
	BHL	Sec 27 T09S R21E 0050 FNL 0350 FWL
43-047-40201	NBU 921-27C2AS	Sec 27 T09S R21E 0630 FNL 1765 FWL
	BHL	Sec 27 T09S R21E 0300 FNL 1730 FWL
43-047-40169	NBU 921-26IT	Sec 26 T09S R21E 1964 FSL 0674 FEL
43-047-40176	NBU 922-29NT	Sec 29 T09S R22E 0845 FSL 1627 FWL
43-047-40177	NBU 922-29KT	Sec 29 T09S R22E 1795 FSL 1936 FWL
43-047-40178	NBU 922-31BT	Sec 31 T09S R22E 0888 FNL 2191 FEL

43-047-40179	NBU 922-32ET	Sec 32	T09S R22E 2477	FNL 0094	FWL
43-047-40186	NBU 922-33OT	Sec 33	T09S R22E 0692	FSL 1465	FEL
43-047-40187	NBU 922-33NT	Sec 33	T09S R22E 0890	FSL 2291	FWL
43-047-40188	NBU 922-33IT	Sec 33	T09S R22E 2115	FSL 0579	FEL
43-047-40191	NBU 1022-04GT	Sec 04	T10S R22E 1897	FNL 1861	FEL
43-047-40189	NBU 922-35IT	Sec 35	T09S R22E 2133	FSL 0627	FEL
43-047-40190	NBU 1022-01CT	Sec 01	T10S R22E 0819	FNL 2106	FWL
43-047-40192	NBU 1022-08IT	Sec 08	T10S R22E 1757	FSL 0323	FEL
43-047-40193	NBU 1022-08GT	Sec 08	T10S R22E 2313	FNL 1922	FEL
43-047-40194	NBU 1022-09AT	Sec 09	T10S R22E 0472	FNL 0582	FEL
43-047-40195	NBU 1022-10HT	Sec 10	T10S R22E 1798	FNL 0297	FEL
43-047-40196	NBU 1022-10FT	Sec 10	T10S R22E 2200	FNL 2094	FWL
43-047-40204	NBU 1022-32D1S	Sec 32	T10S R22E 0205	FNL 2058	FWL
	BHL	Sec 32	T10S R22E 0270	FNL 1310	FWL
43-047-40205	NBU 1022-32D4AS	Sec 32	T10S R22E 0198	FNL 2077	FWL
	BHL	Sec 32	T10S R22E 0760	FNL 1180	FWL
43-047-40206	NBU 1022-32B3S	Sec 32	T10S R22E 0185	FNL 2114	FWL
	BHL	Sec 32	T10S R22E 1150	FNL 2130	FEL
43-047-40207	NBU 1022-32D4DS	Sec 32	T10S R22E 0192	FNL 2096	FWL
	BHL	Sec 32	T10S R22E 1240	FNL 1050	FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
 Division of Oil Gas and Mining  
 Central Files  
 Agr. Sec. Chron  
 Fluid Chron

MCoulthard:mc:7-15-08

**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana; Raleen.White@anadarko.com  
**Date:** 8/7/2008 11:04 AM  
**Subject:** Kerr McGee Approvals

The following wells have been granted approval by the trust lands Administration, including arch and paleo clearance.

4304740169	NBU 921-26IT	Kerr-McGee Oil & Gas	Natural Buttes	NESE	26	090S	210E
4304740170	NBU 921-27KT	Kerr-McGee Oil & Gas	Natural Buttes	NESW	27	090S	210E
4304740171	NBU 921-27MT	Kerr-McGee Oil & Gas	Natural Buttes	SWSW	27	090S	210E
4304740172	NBU 921-27OT	Kerr-McGee Oil & Gas	Natural Buttes	SWSE	27	090S	210E
4304740173	NBU 921-27HT	Kerr-McGee Oil & Gas	Natural Buttes	SENE	27	090S	210E
4304740174	NBU 921-27LT	Kerr-McGee Oil & Gas	Natural Buttes	NWSW	27	090S	210E
4304740176	NBU 922-29NT	Kerr-McGee Oil & Gas	Natural Buttes	SESW	29	090S	220E
4304740177	NBU 922-29KT	Kerr-McGee Oil & Gas	Natural Buttes	NESW	29	090S	220E
4304740178	NBU 922-31BT	Kerr-McGee Oil & Gas	Natural Buttes	NWNE	31	090S	220E
4304740179	NBU 922-32ET	Kerr-McGee Oil & Gas	Natural Buttes	SWNW	32	090S	220E
4304740114	NBU 921-35AT	Kerr-McGee Oil & Gas	Natural Buttes	NENE	35	090S	210E
4304740146	NBU 922-29LT	Kerr-McGee Oil & Gas	Natural Buttes	NWSW	29	090S	220E

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

September 11, 2008

Kerr-McGee Oil & Gas Onshore, LP  
P O Box 173779  
Denver, CO 80217-3779

Re: NBU 922-31BT Well, 888' FNL, 2191' FEL, NW NE, Sec. 31, T. 9 South, R. 22 East,  
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40178.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Field Office  
SITLA



Operator: Kerr-McGee Oil & Gas Onshore, LP  
Well Name & Number NBU 922-31BT  
API Number: 43-047-40178  
Lease: ST ML 22935A

Location: NW NE Sec. 31 T. 9 South R. 22 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.



## DIVISION OF OIL, GAS AND MINING

### ***SPUDDING INFORMATION***

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: NBU 922-31BT

Api No: 43-047-40178 Lease Type: STATE

Section 31 Township 09S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

### **SPUDDED:**

Date 10/29/08

Time 10:30 AM

How DRY

***Drilling will Commence:*** \_\_\_\_\_

Reported by LEW WELDON

Telephone # (435) 828-7035

Date 10/30/08 Signed CHD

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-7024

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740178	NBU 922-31BT		NWNE	31	9	22	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	10/29/2008		10/30/08		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <i>W5MVD</i> SPUD WELL LOCATION ON 10/29/2008 AT 10:30 AM.							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304737583	OURAY 35-151		SESW	35	8	21	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
	99999		10/28/2008				
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. SPUD WELL LOCATION ON 10/28/2008 AT 12:30 PM.							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

REGULATORY ANALYST

Title

10/29/2008

Date

OCT 29 2008

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:  
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ST ML 22935A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
UNIT #891008900A

8. WELL NAME and NUMBER:  
NBU 922-31BT

9. API NUMBER:  
4304740178

10. FIELD AND POOL, OR WILDCAT:  
NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 888' FNL, 2191' FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 31 9S 22E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE.  
CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 10/29/2008 AT 10:30 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

*Sheila Upchego*

DATE 10/29/2008

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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
KERR McGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:  
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ST ML 22935A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
UNIT #891008900A

8. WELL NAME and NUMBER:  
NBU 922-31BT

9. API NUMBER:  
4304740178

10. FIELD AND POOL, OR WILDCAT:  
NATURAL BUTTES FIELD

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 888' FNL, 2191' FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 31 9S 22E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SET SURFACE CSG
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETRO AIR RIG ON 11/12/2008. DRILLED 12 1/4" SURFACE HOLE TO 2410'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/ 350 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/ - SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 25+/- BBL CMT TO PIT. RAN 200' OF 1" PIPE. CMT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 11/13/2008

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ST ML-22935A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
PHONE NUMBER: (435) 781-7024		8. WELL NAME and NUMBER: NBU 922-31BT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 888'FNL, 2191'FEL		9. API NUMBER: 4304740178
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 31 9S, 22E		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2410' TO 9140' ON 01/07/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/380 SX PREM LITE II @12.1 PPG 2.26 YIELD. TAILED CMT W/1300 SX 50/50 POZ @ 14.3 PPG 1.31 YIELD. DISPLACE W/141.3 BBLS H2O + ADDITIVES PLUG DOWN AT 2221 HRS. FLOATS HELD W/1.5 BBLS RETURNED TO INVENTORY. REMOVE SETTING TOOL INSTALL WELL HEAD SEALS AND TEST TO 5000 PSI. CLEAN BOP AND PITS & RELATED EQUIPMENT.

RELEASED ENSIGN RIG 12 ON 01/09/2009 AT 0700 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 1/12/2009

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JAN 20 2009

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: ST ML-22935A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078	7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
PHONE NUMBER: (435) 781-7024	8. WELL NAME and NUMBER: NBU 922-31BT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 888'FNL, 2191'FEL	9. API NUMBER: 4304740178
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 31 9S, 22E	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

COUNTY: UINTAH

STATE: UTAH

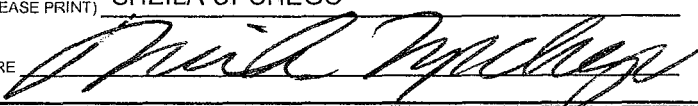
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TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>PRODUCTION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>START-UP</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 02/07/2009 AT 12:27 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST  
SIGNATURE  DATE 2/9/2009

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FEB 11 2009

# ROCKIES

## Operation Summary Report

Well: NBU 922-31BT		Spud Conductor: 10/30/2008		Spud Date: 11/8/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PROPETRO/, ENSIGN 12/12	
Event: DRILLING		Start Date: 11/8/2008		End Date: 1/9/2009	
Active Datum: RKB @4,908.00ft (above Mean Sea Level)		UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
11/8/2008	7:30 - 12:00	4.50	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 0730 HR 11/8/08 DA 510'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD HIT TRONA WATER @ 990' DA AT REPORT TIME 1230'
11/9/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 1380'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 1620'
11/10/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 1770'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 1950'
11/11/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRC W/ SKID PUMP 2200'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILL TO 2410' TD CONDITION HOLE @ REPORT TIME. SURVEY 1.5 DEGREES
11/12/2008	0:00 - 3:00	3.00	DRLSUR	05		P		LDDS
	3:00 - 8:00	5.00	DRLSUR	11	B	P		RUN 54 JTS OF 9 5/8" CSG 36# J-55 TO THE DEPTH OF 2354'. RIG DOWN AIR RIG. MOVE RIG TO NBU 922-31GT
	8:00 - 10:30	2.50	DRLSUR	15	A	P		CEMENT 350 SX OF 15.8#, 1.15YD, 5 GAL/SX, NO CIRC THROUGH OUT JOB. 350 PSI LIFT. BUMP PLUG, FLOAT HELD.
	10:30 - 11:00	0.50	DRLSUR	15	A	P		1ST TOP OUT 100 SX OF 15.8#, 1.15YD, 5 GALS/SX
	11:00 - 12:30	1.50	DRLSUR	15	A	P		2ND TOP OUT 150 SX OF 15.8#, 1.15YD, 5 GAL/SX
	12:30 - 14:30	2.00	DRLSUR	15	A	P		3 RD TOP OUT 150 SX OF 15.8# 1.15YD, 5 GAL/SX
	14:30 - 16:30	2.00	DRLSUR	15	A	P		4TH TOP OUT 100 SX OF 15.8#, 1.15YD, 5 GAL/SX. CEMENT TO SURFACE AND CEMENT STAYED.
	16:30 - 16:30	0.00	DRLSUR					WORT
12/27/2008	5:00 - 7:00	2.00	RDMO	01	E	P		RDRT AND PREPARE TO MOVE.
	7:00 - 18:00	11.00	RDMO	01	A	P		HAD LOCATION LEVELED WITH STUBBS BLADE. MOVE CAMPS AND FRONT YARD WITH 2 JONES TRUCKS.
12/28/2008	18:00 - 0:00	6.00	RDMO	01	E	P		RDRT, PREPARE TO MOVE, WAIT ON DAYLIGHT.
	0:00 - 7:30	7.50	RDMO	01	E	P		WAIT ON DAYLIGHT, RDRT AND PREPARE TO MOVE.
	7:30 - 18:00	10.50	RDMO	01	A	P		HELD DRIVER AND CREW MEMBER SAFETY MEETING. RODE RIG TO THE NBU 922-31BT.
	18:00 - 0:00	6.00	RDMO	01	B	P		RELEASED TRUCKS @ 18:00 HRS. 10% MOVED. RU GROUND EQUIPMENT, WAIT ON DAYLIGHT TO RAISE THE DERRICK.
12/29/2008	0:00 - 0:00	24.00	MIRU	01	B	P		BRIDLE UP / RAISED DERRICK / RIG UP EQUIPMENT TO 95% READY
12/30/2008	0:00 - 2:30	2.50	MIRU	01	B	P		RIG UP EQUIPMENT TO DRILL
	2:30 - 7:00	4.50	PRSPD	13	A	P		NIPPLE UP B.O.P. + RELATED EQUIPMENT / LAY FLARE LINES

## Operation Summary Report

Well: NBU 922-31BT			Spud Conductor: 10/30/2008				Spud Date: 11/8/2008	
Project: UTAH			Site: UINTAH				Rig Name No: PROPETRO/, ENSIGN 12/12	
Event: DRILLING			Start Date: 11/8/2008				End Date: 1/9/2009	
Active Datum: RKB @4,908.00ft (above Mean Sea Level)			UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
12/31/2008	7:00 - 15:00	8.00	PRPSPD	13	C	P		PRESSURE TEST UPPER & LOWER KELLY VALVES, FLOOR VALVE & DART VALVE, BLIND RAMS & PIPE RAMS, INNER & OUTER BOP WING VALVES, KILL LINE & KILL LINE VALVES, CHOKE LINE + INNER & OUTER CHOKE MANIFOLD VALVES TO 250 PSI LOW @ 5 MINS & 5000 PSI @ 10 MINS HIGH / TEST ANNULAR TO 250 PSI LOW @ 5 MINS & 2500 PSI HIGH @ 10 MINS / TEST SURFACE CASING TO 1500 PSI @ 30 MINS / CHANGE OUT CHECK VALVE & FIX LEAKS AS NEEDED.
	15:00 - 17:30	2.50	PRPSPD	05	A	P		LAY OUT & PREP BHA / SAFETY MEETING W/ TESCO / M.I.R.U. EQUIPMENT TO PICK UP B.H.A.
	17:30 - 0:00	6.50	PRPSPD	05	A	P		PICK UP B.H.A. + DRILL PIPE TO TAG
	0:00 - 0:30	0.50	PRPSPD	05	A	P		PICK UP B.H.A. + DRILL PIPE TO TAG @ 2250'
	0:30 - 1:00	0.50	PRPSPD	13	B	P		INSTALL ROTATING RUBBER + KELLY DRIVER
	1:00 - 4:00	3.00	PRPSPD	07	B	Z		WORK ON BOTH MUD PUMPS
	4:00 - 5:30	1.50	PRPSPD	02	F	P		DRILL FLOAT TRAC
	5:30 - 7:30	2.00	DRLPRO	02	B	P		DRILL F/ 2424' - T/ 2553' (129' @ 64.5 fph) 31 vis - 9.1 ppg / 14k-18k wob - 45-55 rpm
	7:30 - 8:00	0.50	DRLPRO	09	B	P		WIRELINE SURVEY @ 2457' - 4 deg / 158.7 azi (corrected)
	8:00 - 14:00	6.00	DRLPRO	02	B	P		DRILL F/ 2553' - T/ 3054' (501' @ 83.5 fph) 34 vis - 9.0 ppg / 16k-18k wob - 43-47 rpm
	14:00 - 14:30	0.50	DRLPRO	09	B	P		WIRELINE SURVEY @ 2957' - 1.1 deg / 179.4 azi (corrected)
	14:30 - 16:00	1.50	DRLPRO	02	B	P		DRILL F/ 3054' - T/ 3149' (95' @ 63.3 fph) 36 vis - 9.1 ppg / 16k-18k wob - 45-50 rpm
	16:00 - 16:30	0.50	DRLPRO	06	A	P		RIG SERVICE
	16:30 - 21:30	5.00	DRLPRO	02	B	P		DRILL F/ 3149' - T/ 3561' (412' @ 82.4 fph) 38 vis - 9.2 ppg / 15k-18k wob - 50-60 rpm (B.O.P. DRILL)
	21:30 - 22:00	0.50	DRLPRO	04	G	P		CIRCULATE & CONDITION HOLE FOR SURVEY
	22:00 - 22:30	0.50	DRLPRO	09	B	P		WIRELINE SURVEY @ 3478' - 1.7 deg / 154.0 azi (corrected)
	1/1/2009	22:30 - 0:00	1.50	DRLPRO	02	B	P	
0:00 - 3:00		3.00	DRLPRO	02	B	P		DRILL F/ 3653' - T/ 3934' (281' @ 93.6 fph) 42 vis - 9.3 ppg / 14k-18k wob - 45-55 rpm
3:00 - 3:30		0.50	DRLPRO	06	A	P		RIG SERVICE / WORK PIPE RAMS / TEST C.O.M.
3:30 - 4:00		0.50	DRLPRO	02	B	P		DRILL F/ 3934' - T/ 4060' (126" @ 252 fph) 42 vis - 9.3 ppg / 14k-18k wob - 45-55 rpm
4:00 - 5:00		1.00	DRLPRO	09	B	P		CIRC & SURVEY @ 3977' - 2.6 deg / 194.9 azi (corrected)
5:00 - 12:30		7.50	DRLPRO	02	B	P		DRILL F/ 4060' - T/ 4561' (501' @ 66.8 fph) 43 vis - 9.7 ppg - 6% lcm / 14k-18k wob - 45-55 rpm
12:30 - 13:00		0.50	DRLPRO	09	B	P		WIRELINE SURVEY @ 4464' - 2.7 deg / 167.0 azi (corrected)
13:00 - 15:00		2.00	DRLPRO	02	B	P		DRILL F/ 4561' - T/ 4687' (126" @ 63 fph) 43 vis - 9.7 ppg - 7% lcm / 16k-19k wob - 49-55 rpm
15:00 - 15:30		0.50	DRLPRO	06	A	P		RIG SERVICE / CHECK C.O.M. / CHECK DRILL LINE
15:30 - 22:00		6.50	DRLPRO	02	B	P		DRILL F/ 4687' - T/ 5095' (252' @ 38.76 fph) 47 vis - 10.0 ppg - 7% lcm / 17k-19k wob - 45-50 rpm
1/2/2009	22:00 - 23:00	1.00	DRLPRO	09	B	P		CIRC & SURVEY @ 5012' - 1.9 deg / 173.2 azi (corrected)
	23:00 - 0:00	1.00	DRLPRO	02	B	P		DRILL F/ 5095' - T/ 5175' (80' @ 80 fph) 49 vis - 10.0 ppg - 7% lcm / 18k wob - 40-45 rpm
	0:00 - 15:30	15.50	DRLPRO	02	B	P		DRILL F/ 5175' - T/ 5848' (673' @ 43.4 fph) 41 vis - 10.2 ppg - 7% lcm / 17k-22k wob - 45-55 rpm



## Operation Summary Report

Well: NBU 922-31BT		Spud Conductor: 10/30/2008		Spud Date: 11/8/2008	
Project: UTAH		Site: UINTAH			Rig Name No: PROPETRO/, ENSIGN 12/12
Event: DRILLING		Start Date: 11/8/2008		End Date: 1/9/2009	
Active Datum: RKB @4,908.00ft (above Mean Sea Level)		UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
1/3/2009	15:30 - 16:00	0.50	DRLPRO	09	B	P		WIRELINE SURVEY @ 5753' - 1.8 deg / 149.6 azi (corrected)
	16:00 - 17:00	1.00	DRLPRO	02	B	P		DRILL F/ 5848' - T/ 5879' (31' @ 31 fph) 41 vis - 10.2 ppg - 7% lcm / 17k-22k wob - 45-55 rpm
	17:00 - 17:30	0.50	DRLPRO	06	A	P		RIG SERVICE / CHECK C.O.M. + DRILL LINE
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRILL F/ 5879' - T/ 6164' (285' @ 43.8 fph) 41 vis - 10.2 ppg - 6% lcm / 17k-22k wob - 45-55 rpm
	0:00 - 1:00	1.00	DRLPRO	02	B	P		DRILL F/ 6164' - T/ 6194' (30' @ 30 fph) 44 vis - 10.3 ppg - 6% lcm / 18k-23k wob - 45-60 rpm
	1:00 - 1:30	0.50	DRLPRO	06	A	P		RIG SERVICE / CHECK C.O.M. / FUNCTION H.C.R. VALVE
	1:30 - 11:00	9.50	DRLPRO	02	B	P		DRILL F/ 6194' - T/ 6420' (226' @ 23.78 fph) 44 vis - 10.4 ppg - 6% lcm / 18k-23k wob - 45-60 rpm
	11:00 - 11:30	0.50	DRLPRO	04	C	P		CIRCULATE & CONDITION HOLE FOR BIT TRIP
	11:30 - 16:30	5.00	DRLPRO	05	A	P		PUMP PILL / P.O.O.H. W/ BIT #1 (MINOR DRAG @ 4437 & f/ 3284' - T/ 2863') / L.D.I.B.S. / CHECK MOTOR / BREAK BIT
	16:30 - 17:00	0.50	DRLPRO	06	A	P		RIG SERVICE / WORK BLIND RAMS / CHECK DRILL LINE
	17:00 - 21:00	4.00	DRLPRO	05	A	P		MAKE UP BIT #2 / T.I.H. / NO PROBLEMS
	21:00 - 22:00	1.00	DRLPRO	03	D	P		PRECAUTIONARY REAM F/ 6360' - T/ 6420' W/ 8' OF FILL / CUT NEW BIT PATTERN
1/4/2009	22:00 - 0:00	2.00	DRLPRO	02	B	P		DRILL F/ 6420' - T/ 6501' (81' @ 40.5 fph) 46 vis - 10.5 ppg - 7% lcm / 15k-18k wob - 45-50 rpm
	0:00 - 3:00	3.00	DRLPRO	02	B	P		DRILL F/ 6501' - T/ 6659' (239' @ 79.6 fph) 43 vis - 10.5 ppg - 6% lcm / 17k-19k wob - 45-50 rpm
	3:00 - 3:30	0.50	DRLPRO	06	A	P		RIG SERVICE
	3:30 - 14:30	11.00	DRLPRO	02	B	P		DRILL F/ 6659' - T/ 7191' (532' @ 48.36 fph) 50 vis - 10.6 ppg - 6% lcm / 17k-20k wob - 45-55 rpm
	14:30 - 15:00	0.50	DRLPRO	06	A	P		RIG SERVICE / CHECK DRILL LINE + C.O.M.
1/5/2009	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL F/ 7191' - T/ 7660' (469' @ 52.11 fph) 46 vis - 10.7 ppg - 7% lcm / 16k-19k wob - 45-55 rpm
	0:00 - 2:00	2.00	DRLPRO	02	B	P		DRILL F/ 7660' - T/ 7789' (129' @ 64.5 fph) 49 vis - 10.7 ppg - 9% lcm / 16k-18k wob - 45-55 rpm
	2:00 - 2:30	0.50	DRLPRO	06	A	P		RIG SERVICE / CHECK C.O.M. + DRILL LINE
	2:30 - 14:30	12.00	DRLPRO	02	B	P		DRILL F/ 7789' - T/ 8324' (535' @ 44.58 fph) 45 vis - 11.1 ppg - 9% lcm / 18k-20k wob - 45-55 rpm
	14:30 - 15:00	0.50	DRLPRO	06	A	P		RIG SERVICE
1/6/2009	15:00 - 23:30	8.50	DRLPRO	02	B	P		DRILL F/ 8324' - T/ 8511' (187' @ 23.37 fph) 46 vis - 11.6 ppg - 12% lcm / 18k-22k wob - 45-55 rpm - LOST 61 BBLS MUD F/ 8502' - 8509'
	23:30 - 0:00	0.50	DRLPRO	04	C	P		CIRCULATE & CONDITION HOLE FOR BIT TRIP
	0:00 - 0:30	0.50	DRLPRO	04	C	P		CIRCULATE & CONDITION HOLE FOR BIT TRIP / MIX WEIGHT PILL
	0:30 - 1:00	0.50	DRLPRO	09	B	P		DROP SURVEY TOOL / WAIT FOR FALL / SURVEY
	1:00 - 7:00	6.00	DRLPRO	05	A	P		PUMP PILL / BLOW KELLY DOWN / P.O.O.H. W/ BIT #2 / BREAK BIT / L.D. NO-MAG COLLAR
	7:00 - 12:00	5.00	DRLPRO	05	A	P		MAKE UP BIT #3 / T.I.H. W/ NO PROBLEMS
	12:00 - 12:30	0.50	DRLPRO	03	D	P		PRE-CAUTIONARY REAM F/ 8450' - T/ 8511' W/ 8' OF FILL
	12:30 - 14:00	1.50	DRLPRO	04	B	X		CIRCULATE GAS FORM HOLE (35'-45' FLARE) / RAISE MUD WEIGHT TO 11.7 / 14 BBL GAIN AFTER BREAKING CIRCULATION (MUD GAS CUT TO 11.2 AT SHAKER)
	14:00 - 17:30	3.50	DRLPRO	02	B	P		CUT NEW BIT PATTERN / DRILL F/ 8511' - T/ 8607' (96' @ 27.42 fph) 44 vis - 11.7 ppg - 9% lcm / 17k-19k wob - 50-55 rpm / LOST 75 BBLS F/ 8511' - T/ 8607'

## Operation Summary Report

Well: NBU 922-31BT		Spud Conductor: 10/30/2008		Spud Date: 11/8/2008	
Project: UTAH		Site: UINTAH			Rig Name No: PROPETRO/, ENSIGN 12/12
Event: DRILLING		Start Date: 11/8/2008		End Date: 1/9/2009	
Active Datum: RKB @4,908.00ft (above Mean Sea Level)		UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
1/7/2009	17:30 - 18:00	0.50	DRLPRO	06	A	P		RIG SERVICE / WORK PIPE RAMS / CHECK C.O.M.
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRILL F/ 8607' - T/ 8801' (194' @ 32.33 fph) 44 vis - 11.8 ppg - 8% lcm / LOST 42 bbls F/ 8607' - T/ 8801'
	0:00 - 9:00	9.00	DRLPRO	02	B	P		DRILL F/ 8801' - T/ 9140' (T.D.) (339' @ 37.66 fph)
	9:00 - 10:30	1.50	EVALPR	04	C	P		CIRCULATE & CONDITION HOLE FOR SHORT TRIP
	10:30 - 11:00	0.50	EVALPR	06	A	P		RIG SERVICE
	11:00 - 13:00	2.00	EVALPR	05	E			SHORT TRIP 15 STANDS W/ NO PROBLEMS & NO FILL / WELL FLOWING A SMALL AMOUNT
1/8/2009	13:00 - 16:00	3.00	EVALPR	04	B	X		RAISE MUD WEIGHT TO 12.3 ppg TO KILL WELL / MIX WEIGHT PILL
	16:00 - 0:00	8.00	EVALPR	05	B	P		L.D.D.P. FOR LOGS
	0:00 - 2:00	2.00	EVALPR	05	B	P		L.D.D.S. / BREAK KELLY + RELATED TOOLS / L.D.B.H.A.
	2:00 - 2:30	0.50	EVALPR	13	B	P		PULL WEAR BUSHING
	2:30 - 8:30	6.00	EVALPR	08	A	P		S-M / M.I.R.U. HALLIBURTON EQUIPMENT / RUN TRIPLE COMBO F/ 9142' - T/ 2366' / R.D.M.O. HALLIBURTON EQUIPMENT
	8:30 - 9:30	1.00	CSG	11	A	P		SAFETY MEETING / M.I.R.U. KIMSEY CASING EQUIPMENT
	9:30 - 17:30	8.00	CSG	11	B	P		RUN 216 JTS. OF 4.5 - #11.6 I-80 LT&C CASING + RELATED TOOLS - BREAKING CIRCULATION AT SELECTED INTERVALS / TAG FILL @ 9136'
	17:30 - 18:00	0.50	CSG	13	B	P		INSTALL MANDREL + DRILLING HEAD RUBBER / LAND CASING @ 9133'
	18:00 - 19:30	1.50	CSG	04	E	P		CIRCULATE & CONDITION HOLE FOR CEMENT / R.D.M.O. CASING EQUIPMENT
	19:30 - 23:00	3.50	CSG	15	A	P		SAFETY MEETING / M.I.R.U. HOWSCO EQUIPMENT / TEST PUMPS & LINES TO 5000 PSI / PUMP 10 bbls H2O + 20 bbls MUD CLEAN + 20 bbls H2O + 20 sx SCAVENGER (PREM LITE II) @ 9.5 ppg + 380 sx LEAD (PREM LITE II) @ 12.1 ppg + 1300 sx TAIL (50/50 POZ) @ 14.3 ppg + 141.3 bbls H2O + ADDITIVES / PLUG DOWN @ 22:21 HRS W/ 5 BBLs SCAVENGER TO PITS / HELD 3100 PSI @ 5 MINS / FLOATS HELD W/ 1.5 bbls RETURNED TO INVENTORY / R.D.M.O. HALLIBURTON EQUIPMENT.
	23:00 - 0:00	1.00	CSG	13	A	P		CLEAN B.O.P EQUIPMENT / REMOVE SETTING TOOL / INSTALL WELLHEAD SEALS & TEST TO 5000 PSI
1/9/2009	0:00 - 7:00	7.00	SUSPEN	13	A	P		INSTALL & TEST WELL HEAD SEALS TO 5000 PSI / CLEAN B.O.P + PITS & RELATED EQUIPMENT / RELEASE RIG BACK TO ENSIGN DRILLING

# ROCKIES

## Operation Summary Report

Well: NBU 922-31BT			Spud Conductor: 10/30/2008			Spud Date: 11/8/2008					
Project: UTAH			Site: UINTAH				Rig Name No: KEY 243/243				
Event: COMPLETION			Start Date: 2/5/2009				End Date:				
Active Datum: RKB @4,908.00ft (above Mean Sea Level)									UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation			
1/30/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, R/D- R/U- ROADING RIG			
	7:15 - 17:00	9.75	COMP	47	A	P		R/D ROAD RIG FROM NBU 922-32IT TO NBU 922-31BT, MIRU, SPOT EQUIP, N/D WELL HEAD, N/U FRAC VALVES, FILL HOLE, MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 6200# [GOOD TEST] PREP TO FRAC MON. SWI.			
2/2/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, WORKING W/ WIRE LINE			

## ROCKIES

## Operation Summary Report

Well: NBU 922-31BT

Spud Conductor: 10/30/2008

Spud Date: 11/8/2008

Project: UTAH

Site: UINTAH

Rig Name No: KEY 243/243

Event: COMPLETION

Start Date: 2/5/2009

End Date:

Active Datum: RKB @4,908.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 18:00	10.75	COMP	36	E	P		<p>STG #1] MIRU CUTTERS WIRELINE &amp; WEATHERFORD FRAC EQUIP, P/U RIH, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90° PH, 8996'-9006' 40 HOLES.</p> <p>WHP=1725#, BRK DN PERFS @ 3194#, INJT PSI=4600#, INJT RT=50.9, ISIP=2849#, FG=.76, PUMP'D 1721 BBLS SLK WTR W/ 58745# 30/50 MESH W/ 4865# RESIN COAT IN TAIL, ISIP=2987#, FG=.77, AR=50.7, AP=4461#, MR=51.2, MP=6439#, NPI=148#, 40/40 CALC PERFS OPEN.</p> <p>STG #2] P/U RIH W/ BKR 8K CBP &amp; PERF GUN. SET CBP @ 8879', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 4 SPF, 90° PH, 8844'-8849' 20 HOLES, 8792'-8797' 20 HOLES [40 HOLES]</p> <p>WHP=2660#, BRK DN PERFS @ 3494#, INJT PSI=5400#, INJT RT=50.3, ISIP=2801#, FG=.76, PUMP'D 643.4 BBLS SLK WTR W/ 19880# 30/50 MESH W/ 5264# RESIN COAT IN TAIL, ISIP=3055#, FG=.79, AR=50.7, AP=4821#, MR=51.4, MP=6477#, NPI=254#, 40/40 CALC PERFS OPEN.</p> <p>STG #3] P/U RIH W/ BKR 8K CBP &amp; PERF GUN. SET CBP @ 8706', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 4 SPF, 90° PH, 8669'-8676' 28 HOLES, 8597'-8600' 12 HOLES [40 HOLES]</p> <p>WHP=2420#, BRK DN PERFS @ 3791#, INJT PSI=5150#, INJT RT=50.8, ISIP=2833#, FG=.77, PUMP'D 2792 BBLS SLK WTR W/ 99696# 30/50 MESH W/ 5183# RESIN COAT IN TAIL, ISIP=2981#, FG=.79, AR=48.9, AP=4694#, MR=50.8, MP=6125#, NPI=148#, 32/40 CALC PERFS OPEN. [NOTE 1175 BBLS SLK WTR &amp; 24800# SAND IN THE 1/4 TO 1-1/4# SAND LOST CHECK VALVE ON PUMP, HAD SHUT DN, SHUT WELL IN TO REPLACE &amp; GOT BACK INTO]</p> <p>STG #4] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 8520', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 3 SPF, 120° PH, 8484'-8490' 18 HOLES, 8437'-8442' 15 HOLES, 8407'-8410' 9 HOLES [42 HOLES]</p> <p>WHP=2340#, BRK DN PERFS @ 3025#, INJT PSI=4350#, INJT RT=53, ISIP=2420#, FG=.74, PUMP'D 4267.2 BBLS SLK WTR W/ 153743# 30/50 MESH W/ 4984# RESIN COAT IN TAIL, ISIP=2745#, FG=.77, AR=52.8, AP=4175#, MR=53.2, MP=4637#, NPI=325#, 42/42 CALC PERFS OPEN. PICKLE WELL SWIFN.</p> <p>HSM, WORKING W/ PRESSURE IN COLD WEATHER</p>
2/3/2009	7:00 - 7:15	0.25	COMP	48		P		

## Operation Summary Report

Well: NBU 922-31BT		Spud Conductor: 10/30/2008		Spud Date: 11/8/2008	
Project: UTAH		Site: UINTAH			Rig Name No: KEY 243/243
Event: COMPLETION		Start Date: 2/5/2009		End Date:	
Active Datum: RKB @4,908.00ft (above Mean Sea Level)		UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP					<p>STG #5] RIH W/ 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 3 SPF, 120* PH, 8328'-8335' 21 HOLES, 8254'-4258' 12 HOLES, 8189'-8192' 9 HOLES [42 HOLES]</p> <p>WHP=200#, BRK DN PERFS @ 3505#, INJT PSI=4750#, INJT RT=51.4, ISIP=2776#, FG=.78, PUMP'D 1600.4 BBLS SLK WTR W/ 595552# 30/50 MESH W/ 5258# RESIN COAT IN TAIL. ISIP=2625#, FG=.76, AR=50.5, AP=4373#, MR=51.4, MP=6469#, NPI=-151#, 40/42 CALC PERFS OPEN.</p> <p>STG #6] P/U RIH W/ BKR 8K CBP &amp; PERF GUN. SET CBP @ 8142', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 4 SPF, 90* PH, 8110'-8112' 8 HOLES, 8032'-8038' 24 HOLES, 7976'-7978' 8 HOLES [40 HOLES]</p> <p>WHP=1400#, BRK DN PERFS @ 3134#, INJT PSI=4850#, INJT RT=50.2, ISIP=2600#, FG=.76, PUMP'D 647 BBLS SLK WTR W/ 20445# 30/50 MESH W/ 5311# RESIN COAT IN TAIL, ISIP=2671#, FG=.77, AR=50.4, AP=4267#, MR=53, M=5350#, NPI=71#, 40/40 CALC PERFS OPEN.</p> <p>STG #7] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 7856' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90* PH, 7822'-7826' 16 HOLES, 7754'-7760' 24 HOLES, [40 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 3273#, INJT PSI=4575#, INJT RT=50.6, ISIP=2204#, FG=.72, PUMP'D 1070.5 BBLS SLK WTR W/ 38241# 30/50 MESH W/ 5208# RESIN COAT IN TAIL, ISIP=2540#, FG=.77, AR=50.4, AP=4129#, MR=51.5, MP=6263#, NPI=336#, 34/40 CALC PERFS OPEN.</p> <p>STG #8] P/U RIH W/ BKR 8K CBP &amp; PERF GUN. SET CBP @ 7856'. PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 3 SPF, 120* PH, 7430'-7437' 21 HOLES, 7382'-7386' 12 HOLES, 7325'-7328' 9 HOLES, [42 HOLES]</p> <p>WHP=1000#, BRK DN PERFS @ 2327#, INJT PSI=3350#, INJT RT=52, ISIP=1791#, FG=.68, PUMP'D 1589.4 BBLS SLK WTR W/ 59898# 30/50 MESH W/ 5207# RESIN COAT IN TAIL, ISIP=2006#, FG=.71, AR=51.8, AP=3220#, MR=52.3, MP=4952#, NPI=215#, 42/42 CALC PERFS OPEN.</p> <p>STG #9] [P/U RIH W/ BKR 8K CBP &amp; PERF GUN. SET CBP @ 7243', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 3 SPF, 120* PH, 7206'-7213' 21 HOLES, 7136'-7140' 12 HOLES, 7064'-7067' 9 HOLES [42 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 3111#, INJT PSI=3900#, INJT RT=52.2, ISIP=1366#, FG=.63, PUMP'D 1667.1 BBLS SLK WTR W/ 62014# 30/50 MESH W/ 5560# RESIN COAT IN TAIL, ISIP=2210#, FG=.70, AR=51.8, AP=3578#, MR=52.3, MP=5938#, NPI=844#, 36/42 CALC PERFS OPEN.</p>

## Operation Summary Report

Well: NBU 922-31BT		Spud Conductor: 10/30/2008		Spud Date: 11/8/2008	
Project: UTAH		Site: UINTAH			Rig Name No: KEY 243/243
Event: COMPLETION		Start Date: 2/5/2009		End Date:	
Active Datum: RKB @4,908.00ft (above Mean Sea Level)		UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
2/4/2009	7:00 - 7:15	0.25	COMP	48		P		P/U RIH W/ BKR 8K CBP. SET CBP @ 7014'. R/D CUTTER & WEATHERFORD FRAC. N/D FRAC VALVES, N/U BOPS, READY TO RIH & DRL PLUGS IN A.M SWIFN.
	7:15 - 18:30	11.25	COMP	44	C	P		HSM, REVIEW DRLG PLUGS 333P/U 3-7/8 BIT W/ POBS PKG, TALLEY & P/U 232 JNTS 2-3/8 J-55 TBG, TAG KILL PLUG @ 7014', P/U PWR SWVL, EST CIRC W/ RIG PUMP.  PLUG #1] DRL THROUGH BKR 8K CBP @ 7014 IN 10 MIN. 600# INCREASE.  PLUG #2] CONTINUE TO RIH TAG SAND @ 7218' [25' FILL] C/O & DRL THROUGH BKR 8K CBP @ 7243' IN 10 MIN. 400# INCREASE.  PLUG #3] CONTINUE TO RIH TAG SAND @ 7437' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 7467' IN 10 MIN. 200# INCREASE.  PLUG #4] CONTINUE TO RIH TAG SAND @ 7826' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 7856' IN 12 MIN. 200# INCREASE.  PLUG #5] CONTINUE TO RIH TAG SAND @ 8120' [22' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8142' IN 10 MIN. 300# INCREASE.  PLUG #6] CONTINUE TO RIH TAG SAND @ 8336' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8366' IN 10 MIN. 200# INCREASE.  PLUG #7] CONTINUE TO RIH TAG SAND @ 8490' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8520' IN 10 MIN. 200# INCREASE.  PLUG #8] CONTINUE TO RIH TAG SAND @ 8690' [26' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8706' IN 8 MIN. 200# INCREASE.  PLUG #9] CONTINUE TO RIH TAG SAND @ 8840' [8849' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8879' IN 10 MIN. 0# INCREASE.  CONTINUE TO RIH C/O TO PBTD @ 9096' CIRC HOLE, R/D PWR SWVL, L/D 20 JNTS ON FLOAT SWIFN.  2/5/2009 7:00 - 7:15 0.25 COMP 48 P 7:15 - 17:00 9.75 COMP 47 A P HSM, R/D CHECK PRESSURES, 0# SITP, 3400# SICP, BLOW WELL DN, RIH C/O TO PBTD, CIRC WELL, L/D 20 JNTS ON FLOAT, P/U HANGER LAND TBG W/ 287 JNTS 2-3/8 J-55 TBG [EOT @ 8727'] R/D TBG EQUIP, N/D BOPS, N/U WELL HEAD, DROP BALL, PUMP OFF BIT W/ 1/2 BBL @ 2900#, TURN WELL OVER TO FLOW BACK CREW.  K.B 14.00 HANGER .83 287 JNTS 2-3/8 J-55 8710.04 TOP HALF / X NIPPLE 2.30 EOT 8727.17

# ROCKIES

## Operation Summary Report

Well: NBU 922-31BT			Spud Conductor: 10/30/2008			Spud Date: 11/8/2008			
Project: UTAH			Site: UINTAH				Rig Name No: KEY 243/243		
Event: COMPLETION			Start Date: 2/5/2009				End Date:		
Active Datum: RKB @4,908.00ft (above Mean Sea Level)			UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation	
2/6/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2600#, TP 2450#, 20/64" CK, 60 BWPH, - SAND, - GAS TTL BBLS RECOVERED: 3590 BBLS LEFT TO RECOVER: 12410	
2/7/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3600#, TP 2450#, 20/64" CK, 35 BWPH, - SAND, - GAS TTL BBLS RECOVERED: 4605 BBLS LEFT TO RECOVER: 11395	
2/8/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3600#, TP 2750#, 18/64" CK, 25 BWPH, - SAND, - GAS TTL BBLS RECOVERED: 5325 BBLS LEFT TO RECOVER: 10675	
2/9/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3500#, TP 2800#, 16/64" CK, 20 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 5850 BBLS LEFT TO RECOVER: 10150	

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ST ML-22935A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:  
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:  
1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 888'FNL, 2191'FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

7. UNIT OR CA AGREEMENT NAME  
UNIT #891008900A

8. WELL NAME AND NUMBER:  
NBU 922-31BT

9. API NUMBER:  
4304740178

10. FIELD AND POOL, OR WILDCAT  
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:  
NWNE 31 9S, 22E

12. COUNTY  
UINTAH

13. STATE  
UTAH

14. DATE SPUDDED:  
10/29/2008

15. DATE T.D. REACHED:  
1/7/2009

16. DATE COMPLETED:  
2/7/2009

ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):  
4894'GL

18. TOTAL DEPTH: MD 9,140  
TVD

19. PLUG BACK T.D.: MD 9,096  
TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

CBL-CCL-GR

SD, DSN, ACTR

23.  
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)  
WAS DST RUN? NO ☒ YES ☐ (Submit report)  
DIRECTIONAL SURVEY? NO ☒ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36		2,410		850			
7 7/8"	4 1/2 I-80	11.6		9,140		1680			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,727							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WAS/MESA	7,064	7,213			7,064 7,213	0.36	42	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,325	9,006			7,325 9,006	0.36	326	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7064'-7213'	PMP 1667 BBLS SLICK H2O & 62,014# 30/50 OTTOWA SD
7325'-9006'	PMP 14,330 BBLS SLICK H2O & 512,200# 30/50 OTTOWA SD

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS:

PROD

RECEIVED  
MAR 05 2009



## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/7/2009	TEST DATE: 2/17/2009	HOURS TESTED: 16	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,902	WATER – BBL: 350	PROD. METHOD: FLOWING
CHOKE SIZE: 18/64	TBG. PRESS. 305	CSG. PRESS. 3,350	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED: 2/7/2009	TEST DATE: 2/17/2009	HOURS TESTED: 16	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,902	WATER – BBL: 350	PROD. METHOD: FLOWING
CHOKE SIZE: 18/64	TBG. PRESS. 305	CSG. PRESS. 3,350	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,230				
BIRDS NEST	1,567				
MAHOGANY	2,061				
WASATCH	4,495	7,082			
MESAVERDE	7,110	9,075			

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 3/3/2009

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ST ML 22935A			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-31BT			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0888 FNL 2191 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 31 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047401780000			
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/17/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span>			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The Operator requests approval to recomplete the subject well to the Wasatch formation. The Operator requests approval to commingle the recompleted Wasatch formation with the existing Wasatch/Mesaverde formations. Please see the attached procedure. Thank you.					
<b>NAME (PLEASE PRINT)</b> Andy Lytle		<b>PHONE NUMBER</b> 720 929-6100			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
<b>DATE</b> 10/14/2011		<b>DATE:</b> 10/19/2011 <b>By:</b> <u><i>Dark K. Quist</i></u>			

# Greater Natural Buttes Unit



## **NBU 922-31BT** **RE-COMPLETIONS PROCEDURE**

**DATE:10/7/2011**  
**AFE#:2064877**  
**API#:4304740178**  
**USER ID:OOT937** (Frac Invoices Only)

**COMPLETIONS ENGINEER:** Zachary Garrity, Denver, CO  
(720)-929-6180 (Office)  
(406)-781-6427 (Cell)

**SIGNATURE:**

**ENGINEERING MANAGER: JEFF DUFRESNE**

**SIGNATURE:**

**REMEMBER SAFETY FIRST!**

**RECEIVED** Oct. 14, 2011

**Name:** **NBU 922-31BT**  
**Location:** **NW NE Sec 31 T9S R22E**  
**LAT: 39.997322** **LONG: -109.481106** **COORDINATE: NAD83 (Surface Location)**  
**Uintah County, UT**  
**Date:** **10/7/2011**

**ELEVATIONS:** 4894' GL 4908' KB *Frac Registry TVD: 9135*

**TOTAL DEPTH:** 9140' **PBTD:** 9097'  
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 2368'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 9133'  
 Marker Joint **4475-4492'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1230' Green River Top  
 1567' Bird's Nest Top  
 2061' Mahogany Top  
 4495' Wasatch Top  
 7110' Mesaverde Top

**BOTTOMS:**

7110' Wasatch Bottom  
 9140' Mesaverde Bottom (TD)

**T.O.C. @ 1460' Cutters CBL – 1/15/2011**

\*Based on latest interpretation of CBL

**GENERAL:**

- A minimum of **5** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 1/8/2009
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.

- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~8727
- Originally completed on 2/2/2009

**Existing Perforations:**

<u>PERFORATIONS</u>									
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btn</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>	<u>Comments</u>	<u>Producing</u>
MESA VERDE		7064	7067	3	9	02/02/2009	PRODUCTION		Yes
MESA VERDE		7136	7140	3	12	02/02/2009	PRODUCTION		Yes
MESA VERDE		7206	7213	3	21	02/02/2009	PRODUCTION		Yes
MESA VERDE		7325	7328	3	9	02/02/2009	PRODUCTION		Yes
MESA VERDE		7382	7386	3	12	02/02/2009	PRODUCTION		Yes
MESA VERDE		7430	7437	3	21	02/02/2009	PRODUCTION		Yes
MESA VERDE		7754	7760	4	24	02/02/2009	PRODUCTION		Yes
MESA VERDE		7822	7826	4	16	02/02/2009	PRODUCTION		Yes
MESA VERDE		7976	7978	4	8	02/02/2009	PRODUCTION		Yes
MESA VERDE		8032	8038	4	24	02/02/2009	PRODUCTION		Yes
MESA VERDE		8110	8112	4	8	02/02/2009	PRODUCTION		Yes
MESA VERDE		8189	8192	3	9	02/02/2009	PRODUCTION		Yes
MESA VERDE		8254	8258	3	12	02/02/2009	PRODUCTION		Yes
MESA VERDE		8328	8335	3	21	02/02/2009	PRODUCTION		Yes
MESA VERDE		8407	8410	3	9	02/02/2009	PRODUCTION		Yes
MESA VERDE		8437	8442	3	15	02/02/2009	PRODUCTION		Yes
MESA VERDE		8484	8490	3	18	02/02/2009	PRODUCTION		Yes
MESA VERDE		8597	8600	4	12	02/02/2009	PRODUCTION		Yes
MESA VERDE		8669	8676	4	28	02/02/2009	PRODUCTION		Yes
MESA VERDE		8792	8797	4	20	02/02/2009	PRODUCTION		Yes
MESA VERDE		8844	8849	4	20	02/02/2009	PRODUCTION		Yes
MESA VERDE		8996	9006	4	40	02/02/2009	PRODUCTION		Yes

**Relevant History:**

**1/26/2010** – Swabbed on the well for 2 days

**5/27/2010** –Set down at 8736 beat down nothing came out ran scratcher set down @ 8736 beat down nothing came out ran jdc set down @ 8736 beat down came out nothing ran 1.9 broach set down @ 8736 came out tubing was clean blew tubing rig down .

**12/1/2010** – Pulled sleeve, the ball sleeve, and broken titanium spring the nogo still on the nipple. Ran scratcher set down at 8725; beat down came out with the cups; blew tubing ran scratcher set down at 8725; beat down came out nothing my tools will not latch on the nogo it had a bad pacemaker left broken spring and pacemaker out.

**H2S History:**

Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
7/31/2010	734.81	37.68	1.32	53.08	
8/31/2010	649.58	29.94	2.39	49.76	
9/30/2010	672.17	33.57	1.73	52.52	
10/31/2010	662.94	30.03	1.68	47.83	
11/30/2010	631.23	30.80	1.43	51.06	
12/31/2010	539.81	3.35	0.74	7.59	0.00
1/31/2011	261.84	10.71	1.84	47.92	
2/28/2011	436.00	12.11	1.93	32.19	0.00
3/31/2011	536.61	23.06	3.45	49.41	
4/30/2011	470.67	19.07	2.07	44.90	5.00
5/31/2011	472.65	20.81	2.45	49.21	
6/30/2011	447.13	18.40	1.10	43.61	
7/31/2011	472.29	26.16	1.74	59.08	
8/31/2011	422.90	22.90	1.23	57.06	
9/30/2011	0.00	0.00	0.00	#NA	

**PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. If the tubing is below the proposed CBP depth, TOO H with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8727'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7010 (50' below proposed CBP). Otherwise P/U a mill and C/O to 7010 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6960'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
WASATCH	6812	6814	4	8
WASATCH	6870	6872	4	8
WASATCH	6921	6923	4	8
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6812' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~6,626'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
------	------	----	-----	------------

WASATCH      6570    6576    4            24

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6570' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~6,348'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
WASATCH	6296	6300	3	12
WASATCH	6314	6318	3	12
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6296' and flush only with recycled water.
11. Set 8000 psi CBP at ~6,246'.
12. ND Frac Valves, NU and Test BOPs.
13. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
14. Mill 3 plugs and clean out to a depth of 6935'.
15. Land tubing at 6780', drop ball and pump open sub. Flow back completion load. RDMO
16. MIRU, POOH tbg and mill. TIH with POBS and mill.
17. Mill last plug @ 6960' clean out to PBSD at 9097'. Land tubing at ±8727' pump off bit and bit sub. This well WILL be commingled at this time.
18. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
19. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

**For design questions, please call**  
**Zachary Garrity, Denver, CO**  
**(720)-929-6180 (Office)**  
**(406)-781-6427 (Cell)**

**For field implementation questions, please call**  
**Jeff Samuels, Vernal, UT**  
**(435)-781-7046 (Office)**

NOTES:

**If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

**Verify that the Braden head valve is locked OPEN.**

Name NBU 922-31BT - Recomplete  
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	WASATCH	6812	6814	4	8		6803	to	6816
	WASATCH	6870	6872	4	8		6861	to	6876.5
	WASATCH	6921	6923	4	8		6919	to	6924
	# of Perfs/stage				24		CBP DEPTH	6,626	
2	WASATCH	6570	6576	4	24		6569.5	to	6587
	# of Perfs/stage				24		CBP DEPTH	6,348	
	Totals				72				



**Name** NBU 922-31BT - Recomplete  
**Slickwater Frac**

Copy to new book

Recomplete?	Y
Pad?	N
ACTS?	N

Swabbing Days	3	Enter Number of swabbing days here for reCompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Total Stages	3	stages
Last Stage Flush	4,289	gals

Service Company Supplied Chemicals - Job Totals				
Friction Reducer	37	gals @	0.5	GPT
Surfactant	75	gals @	1.0	GPT
Clay Stabilizer	75	gals @	1.0	GPT
15% Hcl	750	gals @	250	gal/stg
Iron Control for acid	4	gals @	5.0	GPT of aci
Surfactant for acid	1	gals @	1.0	GPT of aci
Corrosion Inhibitor for acid	2	gals @	2.0	GPT of aci

Scale Inhibitor	257	gals pumped per schedule above		
Biocide	37	gals @	0.5	GPT

**RECEIVED** Oct. 14, 2011

Acid Pickling and H2S Procedures (If Required)

**\*\*PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLs 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLs 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**\*\* PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLs MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

\*\* As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Zachary Garrity: 406-781-6427, 720-929-6180

Production Engineer

Jordan Portillo: 435/781-9785, 435/828-6221

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ST ML 22935A	
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input checked="" type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER RECOMPLETION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME UTU63047A	
3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217		8. WELL NAME and NUMBER: NBU 922-31BT	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NWNE 888 FNL 2191 FEL  AT TOP PRODUCING INTERVAL REPORTED BELOW:  AT TOTAL DEPTH:		9. API NUMBER: 4304740178	
14. DATE SPUDDED: 10/29/2008		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES	
15. DATE T.D. REACHED: 1/7/2009		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 31 9S 22E S	
16. DATE COMPLETED: 12/9/2011		12. COUNTY UINTAH	
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH	
17. ELEVATIONS (DF, RKB, RT, GL): 4894 GL		21. DEPTH BRIDGE MD PLUG SET: TVD	
18. TOTAL DEPTH: MD 9,140 TVD		20. IF MULTIPLE COMPLETIONS, HOW MANY? *	
19. PLUG BACK T.D.: MD 9,096 TVD		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)	

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

CBL/CCL/GR-SD/DSN/ACTR

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	36#	0	2,410		850			
7 7/8"	4 1/2" I-80	11.6#	0	9,140		1,680			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,075							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	6,296	6,923			6,296 6,923	0.36	72	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6296 - 6923	PUMP 2020 BBLs SLICK H2O & 57,865 LBS 30/50 OTTAWA SAND
	3 STAGES

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: \_\_\_\_\_

30. WELL STATUS:

PROD

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 12/9/2011		TEST DATE: 12/16/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,041	WATER – BBL: 80	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 431	CSG. PRESS. 713	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,041	WATER – BBL: 80	INTERVAL STATUS: PROD

## INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,230
				BIRD'S NEST	1,567
				MAHOGANY	2,061
				WASATCH	4,495
				MESAVERDE	7,110

## 35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological recompletion history and perforation report.

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) JAIME SCHARNOWSKETITLE REGULATORY ANALYST

SIGNATURE

Jaime Scharnowske

DATE

1/19/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 922-31BT		Spud Conductor: 10/30/2008		Spud Date: 11/8/2008	
Project: UTAH-UINTAH		Site: NBU 922-31BT		Rig Name No: ROYAL WELL SERVICE 2/2, MILES 3/3	
Event: RECOMPL/RESEREVEADD		Start Date: 11/30/2011		End Date: 12/9/2011	
Active Datum: RKB @4,908.00usft (above Mean Sea Level)		UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/30/2011	11:30 - 13:30	2.00	COMP	30	A	P		ROAD RIG FROM NBU 922-31K PAD TO LOC. FTP 10, FCP 10. SURFACE CSG 300 PSI. BLEED OFF SURFACE CSG. SPOT AND RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP.
	13:30 - 17:30	4.00	COMP	31	I	P		UNLAND TBG FROM 8727'. LD 4" 10K HANGER. MIRU B&C SCAN. MACHING BROKE AS SETTING UP. RD B&C. POOH W/ 287-JTS 2-3/8" J-55 TBG. NO SCALE. SB 204-JTS. LD 83-JTS. RD FLOOR. ND BOP. NU FRAC VALVES. RU FLOOR. DRAIN EQUIP. SDFN
12/1/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- EWL. PRES TEST.
	7:15 - 8:15	1.00	COMP	34	I	P		SICP 500SUR. BWD. PMP 20 BBLS DOWN CSG. RU JW EWL. RIH W/ 4-1/2" CIBP AND SET AT 6960'. RD JW EWL.
	8:15 - 12:00	3.75	COMP	33	C	P		FILL HOLE W/ 100 BBLS. PRES TEST W/ RIG PMP 2T0 2500#. GOOD. FILL SURFACE W/ 15 BBLS. PRES TEST SURFACE TO 900#. LOST 200 IN 15 MIN. BLEED OFF SURFACE. HOOK B&C TO 4-1/2" CSG AND FRAC VALVES. PRES TEST
								TEST TO 1036# FOR 15 MIN. SURFACE AT 40#. END 1041#, GAIN 5#. SURFACE AT 45#.
								TEST TO 3567# FOR 15 MIN. SURFACE AT 100#. END AT 3565#, LOST 2#. SURFACE AT 100#.
								TEST TO 6210# FOR 30 MIN. SURFACE AT 140#. END AT 6230#. GAIN 20#. SURFACE AT 140#. NO COMMUNICATION TO SURFACE CSG. BLEED OFF ALL PRESSURE.
								RD B&C. DRAIN AND WINTERIZE VALVES. SDFWE. FRAC ON 12/5/11
12/2/2011	-							
12/5/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- PERF AND FRAC.



## US ROCKIES REGION

## Operation Summary Report

Well: NBU 922-31BT	Spud Conductor: 10/30/2008	Spud Date: 11/8/2008
Project: UTAH-UINTAH	Site: NBU 922-31BT	Rig Name No: ROYAL WELL SERVICE 2/2, MILES 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 11/30/2011	End Date: 12/9/2011
Active Datum: RKB @4,908.00usft (above Mean Sea Level)	UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	36	B	P		<p>MIRU JW EWL AND SUPERIOR. COLD WEATHER, ENGINES SLOW TO GET STARTED.</p> <p>STAGE #1--RIH W/ 3-1/8" EXP PERF GUN (23 GRAM, 40" PENT, .36 EOD, 4 SPF ON 90*) AND PERF WASATCH AS PER PROCEDURE.</p> <p>PRES TEST SURFACE LINES TO 7200 PSI. GOOD. OPEN WELL- SICP 303 PSI. BRK 2609 PSI AT 3.4 BPM, ISIP 1435, FG .65.</p> <p>PMP 100 BBLS SLK WTR, 38.8 BPM @ 4612 PSI = 62% PERFS OPEN.</p> <p>MP 5620, MR 50.4, AP 4737, AR 43.3, FG .79, ISIP 2395, NPI 960.</p> <p>BBLS PMP 764 SLK WTR, 22,093# 30/50 PROP.</p> <p>-----</p> <p>STAGE #2- PU 4-1/2" HAL CO 8K CBP AND 3-3/8" EXP GUNS, 23 GM, .36, 4 SPF ON 90*ON 120* PHASING.</p> <p>SET CBP AT 6606'. PERF WASATCH AS PER PROCEDURE</p> <p>OPEN WELL- SICP 100 PSI. BRK 4624 PSI AT 3.3 BPM, ISIP 1852, FG .72.</p> <p>PMP 76 BBLS SLK WTR, 46.3 BPM @ 4339 PSI = 80% PERFS OPEN.</p> <p>MP 4409, MR 47.1, AP 3925, AR 46.7, FG .73, ISIP 1887, NPI 35.</p> <p>BBLS PMP 620 SLK WTR, 17,632# 30/50 PROP.</p> <p>-----</p> <p>STAGE #3- PU 4-1/2" HAL CO 8K CBP AND 3-3/8" EXP GUNS, 23 GM, .36 EOD, 3 SPF ON 120* PHASING</p> <p>SET CBP AT 6348'. PERF WASATCH AS PER PROCEDURE.</p> <p>OPEN WELL- SICP 850 PSI. BRK 3491PSI AT 3.5 BPM, ISIP 1305, FG .66.</p> <p>PMP 76 BBLS SLK WTR, 46.9 BPM @ 3784 PSI = 81% PERFS OPEN.</p> <p>MP 4033, MR 47.7, AP 3489, AR 46.9, FG .69, ISIP 1609, NPI 304.</p> <p>BBLS PMP 636 SLK WTR, 18,138# 30/50 PROP.</p> <p>-----</p> <p>CUMM TOTALS                    2,020 BBLS SLK WTR. 57,865 # 30/50 PROP 252 GAL SCALE INHIB 45 GAL BIOCID</p> <p>-----</p> <p>RIH W/ 4-1/2" HALCO CBP AND SET KILL PLUG AT 6248'.</p> <p>RDMO JW EWL AND SUPERIOR.</p> <p>RD FLOOR. ND FRAC VALVES. NU BOP. RU FLOOR.</p> <p>JSA- RIH W/ TBG. RU PWR SWIVEL. D/O PLUGS. LAND TBG.</p>
12/6/2011	17:00 - 18:00	1.00	COMP	30	F	P		
	7:00 - 7:15	0.25	COMP	48		P		

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 922-31BT		Spud Conductor: 10/30/2008		Spud Date: 11/8/2008	
Project: UTAH-UINTAH		Site: NBU 922-31BT		Rig Name No: ROYAL WELL SERVICE 2/2, MILES 3/3	
Event: RECOMPL/RESEREVEADD		Start Date: 11/30/2011		End Date: 12/9/2011	
Active Datum: RKB @4,908.00usft (above Mean Sea Level)		UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 11:00	3.75	COMP	31	I	P		SICP 0. MU 3-7/8" MILL, PMP OPEN BIT SUB, 1.87" XN AND RIH AS SLM. TAG AT '. RU DRLG EQUIP. FILL TBG AND PRES TEST TO 2500#. BLEED OFF AND EST CIRC W/ TMAC.
	11:00 - 17:00	6.00	COMP	44	C	P		#1- C/O 0' SAND TO CBP AT 6246'. D/O IN 12 MIN. 200# INC. 200 CP. #2- C/O 15' SAND TO CBP AT 6348. D/O IN 6 MIN. 0# INC. 100# CP. #3- C/O 15' SAND TO CBP AT 6806'. D/O IN 9 MIN. 50# INC. 100# CP. CIBP AT 6960'. C/O 7' SAND TO 6934' W/ 228-JTS IN (11' RATHOLE). CIRC CLEAN.  RD PWR SWMVEL. POOH AS LD 6-JTS. PU 4" 10K HANGER. LUB IN AND LAND 222-JTS 2-3/8" J-55 W/ EOT AT 6767.11. RD FLOOR. ND BOP. NU WH. PMP OPEN BIT SUB AT 2400#. SITP 600#. SICP 650#. SURFACE CSg OPEN. INSTALL POP OFF. RACK OUT EQUIP. RDSU AND MOVE OFF. TURN WELL OVER TO FBC AND SALES. HAVE N2/FOAM ON LOCATION TO UNLOAD WELL IF DIES.  TBG DETAIL KB 14.00 4" 10K HANGER .83 222-JTS 2-3/8" L-80 6749.23 1.87" XN W/ PMP OPEN 3.05 BIT SUB AND MILL. EOT 6767.11  65-JTS J-55 USED TO SAMUELS YARD. TLTR 2020, LRT 400, LLTR 1620. WellBSICPBSITPBFLESCIPESITPEFLRunsBBLs Rec.SummaryCOSTS NBU 922-31BT780011009704090076012/7/111270 WellForemanDateBCPBTPBFLECPETPEFLRunsBBLs Cost NBU 922-31BTJerry12/8/11146002001250400(F)2600101 70\$2,440 WellBSICPBSITPBFLESCIPESITPEFLRunsBBLs Rec.SummaryCOSTS NBU 922-31BT860340400045030490034012/9/112230 HSM & JSA W/ROYAL WELL SERVICE.
12/7/2011	7:00 -		PROD	42				ROAD RIG FROM NBU 922-29LT. MIRU - SPOT EQUIP. SITP 100 PSI, SICP 600 PSI. BLOW WELL DWN TO PROD TANK. NDWH, NU BOPs. L/D TBG HNGR. POOH W/222 JTS TBG & L/D BHA. PU 3 7/8" BIT, POBS & XN NIPPLE. TIH W/222 JTS TBG & BHA. EOT @ 6780'. SWM - SDFN. FREEZE PROTECT WH & SURFACE EQUIP.
12/8/2011	7:00 -		PROD	42				
12/9/2011	7:00 -		PROD	42				
12/14/2011	6:45 - 7:00	0.25	REE	48		P		
	7:00 - 7:00	0.00	REE	30	A	P		
12/15/2011	6:45 - 7:00	0.25	REE	48		P		

## US ROCKIES REGION

## Operation Summary Report

Well: NBU 922-31BT

Spud Conductor: 10/30/2008

Spud Date: 11/8/2008

Project: UTAH-UINTAH

Site: NBU 922-31BT

Rig Name No: ROYAL WELL SERVICE 2/2, MILES  
3/3

Event: RECOMPL/RESERVEADD

Start Date: 11/30/2011

End Date: 12/9/2011

Active Datum: RKB @4,908.00usft (above Mean Sea  
Level)

UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 7:00	0.00	REE	44	C	P		<p>EOT @ 6955'. MIRU HOT OILER. MIRU WEATHERFORD FOAM UNIT. PMP 10 BBLs DWN TBG TO CONTROL WELL. RIH TAG FILL @ 6955'. LD 1 JT, R/D TBG EQUIP. R/U PWR SWWL. INTALL STRING FLOAT. EST CIRC W/FOAM. C/O 27' OF SND. FCP 100 PSI. D/O CIBP @ 6982' IN 28 MIN. 150 PSI DIFF. FCP 200 PSI. SWWL DWN 3 JTS. R/D PWR SWWL, R/U TBG EQUIP. LD 4 JTS TBG. REMOVE STRING FLOAT. RIH W/TBG. TAG FILL @ 9066'. (BTM PERF @ 9006' - PBTD @ 9098') CIRC WELL CLEAN W/FOAM FOR 35 MIN. R/D PWR SWWL, R/U TBG EQUIP. L/D 33 JTS TBG. (45 JTS TOTAL ON FLOAT) LND TBG ON HNGR W/262 JTS USED 2 3/8" 4.7# J55 TBG @ 8075.02'. ND BOPs, DROP BALL, NUWH. PMP OFF BIT W/FOAM @ 2100 PSI. FLOW TBG TO FLOWBACK TANK 20 MIN. SWL - R/D</p> <p>KB 14.00' HANGER 0.83' TUBING 8057.81' XN NIPPLE 1.33' NOTCHED COLLAR 1.05' EOT @ 8075.02' XN NIPPLE @ 8072.64'</p>

## 1 General

### 1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

### 1.2 Well/Wellbore Information

Well	NBU 922-31BT	Wellbore No.	OH
Well Name	NBU 922-31BT	Wellbore Name	NBU 922-31BT
Report No.	1	Report Date	12/5/2011
Project	UTAH-UINTAH	Site	NBU 922-31BT
Rig Name/No.	MILES 3/3	Event	RECOMPL/RESERVEADD
Start Date	11/30/2011	End Date	12/9/2011
Spud Date	11/8/2008	Active Datum	RKB @4,908.00usft (above Mean Sea Level)
UWI	0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0		

### 1.3 General

Contractor	JW WIRELINE	Job Method	PERFORATE	Supervisor	FRANK WINN
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

### 1.4 Initial Conditions

Fluid Type	KCL WATER	Fluid Density	8.40 (ppg)
Surface Press	0.00 (psi)	Estimate Res Press	
TVD Fluid Top	0.0 (usft)	Fluid Head	6,923.0 (usft)
Hydrostatic Press	3,020.95 (psi)	Press Difference	3,020.95 (psi)
Balance Cond	OVER BALANCED		

### 1.5 Summary

Gross Interval	6,296.0 (usft)-6,923.0 (usft)	Start Date/Time	12/5/2011 12:00AM
No. of Intervals	6	End Date/Time	12/5/2011 12:00AM
Total Shots	72	Net Perforation Interval	20.00 (usft)
Avg Shot Density	3.60 (shot/ft)	Final Surface Pressure	
		Final Press Date	

## 2 Intervals

### 2.1 Perforated Interval

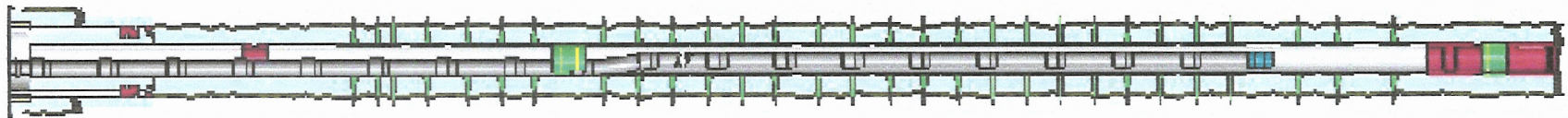
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/5/2011 12:00AM	WASATCH/			6,296.0	6,300.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

## 2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/5/2011 12:00AM	WASATCH/			6,314.0	6,318.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/5/2011 12:00AM	WASATCH/			6,570.0	6,576.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/5/2011 12:00AM	WASATCH/			6,812.0	6,814.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/5/2011 12:00AM	WASATCH/			6,870.0	6,872.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/5/2011 12:00AM	WASATCH/			6,921.0	6,923.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

## 3 Plots

## 3.1 Wellbore Schematic



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ST ML 22935A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-31BT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0888 FNL 2191 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 31 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047401780000
<b>PHONE NUMBER:</b> 720 929-6511		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/29/2012</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests authorization to temporarily abandon the subject well location. The operator proposes to temporarily abandon the well to drill the NBU 922-31B Pad, which consists of the following wells: NBU 922-31C1AS, NBU 922-31C3AS, NBU 922-31C4CS, NBU 922-31F1BS, NBU 922-30O4BS, and NBU 922-31A2BS. Please see attached procedure. Thank you.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** July 12, 2012

**By:** *Derek Duff*

<b>NAME (PLEASE PRINT)</b> Cara Mahler	<b>PHONE NUMBER</b> 720 929-6029	<b>TITLE</b> Regulatory Analyst I
<b>SIGNATURE</b> N/A		<b>DATE</b> 6/29/2012

Well Name: **NBU 922-31BT**  
 Surface Location: NWNE Sec. 31, T9S, R22E  
 Uintah County, UT

6/27/12

**Recommended action for disposition of well bore:**

This well will be temporarily abandoned to accommodate drilling operations in one of 2 ways. We will either plug the wellbore as outlined in the attached procedure or Shut-In in the following manner: a) Set a tubing plug near EOT, install a flange over the tbg hanger, removal of master valve, set VR plugs in casing head at surface, and removal of casing wing valves, replaced with blind flanges.

API: 4304740178 LEASE#: ST ML-22935A

ELEVATIONS: 4894' GL 4908' KB

TOTAL DEPTH: 9140' PBD: 9096'

SURFACE CASING: 9 5/8", 36# J-55 @ 2410' (KB)

PRODUCTION CASING: 4 1/2", 11.6# I-80 @ 9140'  
 TOC @ ~Surface per CBL

PRODUCTION TUBING: 2 3/8" 4.7# J-55 TBG @ 8075' (12/6/11)

PERFORATIONS: WASATCH 6296' - 6923'  
 MESAVERDE 7064' - 9006'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.765	2020	3520	3.247	0.434	0.0773
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01
4.5" csg X 9 5/8" 36# csg				2.227	0.2977	0.053
4.5" csg X 7.875 borehole				1.704	0.2278	0.0406
9.625" csg X 12 1/4" borehole				2.3428	0.3132	0.0558

**GEOLOGICAL TOPS:**

4495' Wasatch  
 7110' Mesaverde



**NBU 922-31BT TEMPORARY ABANDONMENT PROCEDURE**

**GENERAL**

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID.
- NOTIFY BLM/UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

**PROCEDURE**

**Note: An estimated 24 sx of cement needed to perform procedure.**

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. RU WIRELINE. ENSURE WELLBORE IS CLEAN. **A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.**
3. RUN GYRO SURVEY.
4. **PLUG #1, ISOLATE WAS/MV PERFORATIONS (6296' - 9006'):** RIH W/ 4 ½" CBP. SET @ ~6250'. RELEASE CBP, PUH 10', BRK CIRC W/ FRESH WATER. PRESSURE TEST CASING TO 500 PSI. INFORM ENGINEERING IF IT DOESN'T TEST. DISPLACE A MINIMUM OF **8 SX/ 4.5 BBL/ 8.7 CUFT**. ON TOP OF PLUG. PUH ABOVE TOC (~6150'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. **PLUG #2, PROTECT TOP OF WASATCH (4495'):** PUH TO ~4600'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **16 SX / 3.3 BBL / 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~4390' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
6. LOWER WELLHEAD TO GROUND LEVEL TO ACCOMMODATE DRILLING OPS AND INSTALL MARKER PER UDOGM GUIDELINES.
7. RDMO. TURN OVER TO DRILLING OPERATIONS.

ALM 6/27/12

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ST ML 22935A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-31BT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0888 FNL 2191 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 31 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047401780000
<b>PHONE NUMBER:</b> 720 929-6514		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/1/2013	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The operator has concluded the temporary abandonment operations on the subject well location on 7/1/2013. This well was plugged in order to expand and drill the NBU 922-31B Pad wells. Please see the attached chronological well history for details. Thank you.		
<b>NAME (PLEASE PRINT)</b> Teena Paulo		<b>PHONE NUMBER</b> 720 929-6236
<b>SIGNATURE</b> N/A		<b>TITLE</b> Staff Regulatory Specialist
<b>DATE</b> 8/20/2013		<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> August 21, 2013

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 922-31BT			Spud Conductor: 10/30/2008			Spud Date: 11/8/2008			
Project: UTAH-UINTAH			Site: NBU 922-31B PAD				Rig Name No: MILES 3/3		
Event: ABANDONMENT			Start Date: 6/24/2013				End Date: 7/1/2013		
Active Datum: RKB @4,908.00usft (above Mean Sea Level)			UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
6/27/2013	14:30 - 17:00	2.50	ABANDT	30	A	P		MIRU F/ CIGE 183, SDFN.	
6/28/2013	7:00 - 7:30	0.50	ABANDT	48		P		HSM, WORKING W/ SCAN TECH.	
	7:30 - 9:00	1.50	ABANDT	30	F	P		SITP 140, SICP 140, CONTROL TBG W/ 30 BBLS CONTROL CSG W/ 30 BBLS, ND WH NU BOPS RU FLOOR & EQUIP.BLEW DWN SURF PSI, REMOVED POP OFF. UNLAND & L/D HANGER. RU SCAN TECH.	
	9:00 - 13:30	4.50	ABANDT	31	I	P		SCAN TBG OUT OF HOLE. 262 JTS 23/8 J-55 SOME SCALE ON OD, HAD 149 YB, 33 BB, 80 RED, INTERNAL PITTING, RD SCAN TECH.	
	13:30 - 18:00	4.50	ABANDT	34	I	P		RU CASED HOLE, RIH W/ 41/2 GR TO 6270', POOH RUN GYRO F/ 2200 ' TO 6250' POOH L/D GYRO TOOLS, RIH SET 41/2 8K HAL CBP @ 6250', HAD TROUBLE GETTING OFF TOOL, POOH RD WL, FILL CSG TEST TO 500 OK SWI SDFN.	
7/1/2013	7:00 - 7:30	0.50	ABANDT	48		P		HSM, WORKING W/ CMT CREW.	
	7:30 - 15:00	7.50	ABANDT	31	I	P		O PSI ON WELL, RIH W/ N/C & 182 JTS 23/8 J-55 F/ DERICK, PU 20 JTS 23/8 J-55 F/ YARD TAG PLUG & 6250 ' , 202 JTS L/D JT 202 EOT @ 6237' RU PRO PETRO, PMP 2.6 BBLS FRESH, 1.6 BBLS G 15.8# 1.15 YEILD 8 SKS, 103', DISPL W/ 22.7 BBLS T-MAC, L/D 4 JTS EOT @ 6109' REV W/ 36 BBLS T-MAC. L/D 49 JTS EOT @ 4609', PMP 2.6 BBLS FRESH, 3.2 BBLS G 15.8# 1.15 YEILD G CMT 16 SKS 206'. L/D 4 JTS EOT @ 4363' REV W/ 25 BBLS T-MAC. RD PRO PETRO. L/D REM 140 JTS, RD FLOOR, ND BOPS, RIG DOWN DUG AROUND WELL HEAD REMOVED TBG SPOOL, INSTALLED CSG CAP, MOVED OFF LOCATION.  L/D 262 JTS 23/8 J-55 F/ WELL ALL SENT TO SAMEULS YARD. 149 YB 33BB 80 RED  ( #1 ) BALANCED CMT PLUG, 4403'-4609' 206' ( 16 SKS CMT ) CLASS G 15.8# 1.15 YEILD ( #2 ) BALANCED CMT PLUG, 6134'-6237' 103' ( 8 SKS CMT ) CLASS G 15.8# 1.15 YEILD HAL 8K CBP @ 6250'  GPS READING @ WELL HEAD N 39 59.838' W 109 28.865' ELEV 4873	
7/5/2013	7:00 -							REMOVE PRODUCTION FACILITIES TO PREPARE LOCATION FOR PAD DRILLING	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ST ML 22935A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-31BT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0888 FNL 2191 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 31 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047401780000
<b>PHONE NUMBER:</b> 720 929-6100		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/10/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS RETURNED TO PRODUCTION ON 4/10/2014 FROM A TEMPORARY ABANDON STATUS. PLEASE SEE ATTACHED WELL HISTORY FOR DETAILS.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> April 25, 2014		
<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/25/2014	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 922-31BT				Spud Conductor: 10/30/2008				Spud Date: 11/8/2008			
Project: UTAH-UINTAH				Site: NBU 922-31B PAD				Rig Name No: SWABBCO 6/6			
Event: ABANDONMENT				Start Date: 2/15/2014				End Date: 4/10/2014			
Active Datum: RKB @4,908.00usft (above Mean Sea Level)				UWI: 0/9/S/22/E/31/0/NWNE/6/PM/N/888.00/E/0/2,191.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
2/15/2014	7:00 -							REBUILD PROD. FACILITIES TO RETURN WELL TO PRODUCTION			
4/9/2014	7:00 - 7:30	0.50	ABANDT	48		P		MILLING CEMENT			
	7:30 - 17:00	9.50	ABANDT	44	A	P		MIRU, SET CEMENT ANCHORS, SPOT EQUIP, NDWH, NU BOP'S, TEST,PU POBS, BIT, SN, TIH TAG CEMENT PLUG 4403', 138 JTS, MILL 4 JTS, 120' CEMENT, CIRC CLEAN, TIH TO 6134', TAG CEMENT PLUG, MILL CEMENT.MILL 4 JTS MILL CBP, RU WEATHERFORD, BREAK CIRC, CLEAN WELL BORE, PU PULL STRING FLOAT, SWIFN			
4/10/2014	7:00 - 7:30	0.50		48		P		WORK WITH FOAM UNIT			
	7:30 - 15:00	7.50		44	D	P		TIH TO PBTD, RIG UP POWER SWIVEL AND FOAM UNIT, CIRC HOLE DRILL AND CLEAN OUT 50' FILL ON PBTD, CIRC CLEAN HOLE, RIG DOWN POWER SWIVEL AND FOAM UNIT TOH LAY DOWN 31 JTS, P/U, HANGER, LAND TUBING, RIH WITH TUBING BROACH, POOH, NDBOPS, NUWH, POBS, RDMO			
								KB 14			
								TH .83			
								256 JTS J-55 8044.12			
								POBS AND SN 2.20			
								EOT 8061.15			